UNCLASSIFIED PROCESSING DATE--11SEP70
TITLE--SPECTROSCOPIC STUDY OF THE LUMINESCENT ASSOCIATES OF RHODAMINE DYES

-UAUTHOR--LEYSHIN, L.V., NIZAMOV, N.

COUNTRY OF INFO--USSR

SOURCE--ZH. PRIKL. SPEKTROSK. 1970, 12(1), 102-7

DATE PUBLISHED-----70

SUBJECT AREAS--MATERIALS, PHYSICS

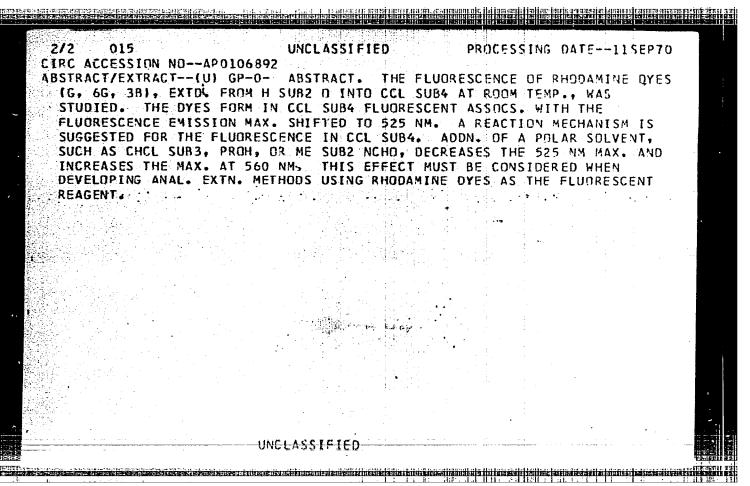
TOPIC TAGS--DYE, LUMINESCENCE, FLUORESCENCE, ORGANIC SOLVENT

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED
PROXY REEL/FRAME--1989/0236

STEP NO--UR/0368/70/012/001/0102/0107

CIRC ACCESSION NO--AP0106892
UNCLASSIFIED



USSR

UDC 629.78.018.4:620.1

KAYBYSHEV, O. A., NIZAMOV, R. G., GAZIYEV, A. A.

"Experimental Setup and Procedure for Measuring the Dynamic Properties of Metals"

Tr. Ufim. aviats. in-ta (Works of the Ufa Aviation Institute), 1972, vyp. 29, pp 170-180 (from RZh-Raketostroyeniya, otdel'nyy vypusk, No 12, Dec 72, Abstract No 12.41.247)

Translation: The experimental device permitting investigation of the effect of high-speed deformation on the structure and properties of metals in the deformation rate range of 10^2 seconds to 10^4 seconds is described. The dynamic properties were measured during the process of high-speed deformation considering wave processes by two independent methods: strain gaging and streak photography. The practical inertialess measuring and recording apparatus were used: electric resistance strain gages, a pulsed cathode oscillograph and superhigh speed SFR-2M streak camera. There are 4 illustrations and an 8-entry bibliography.

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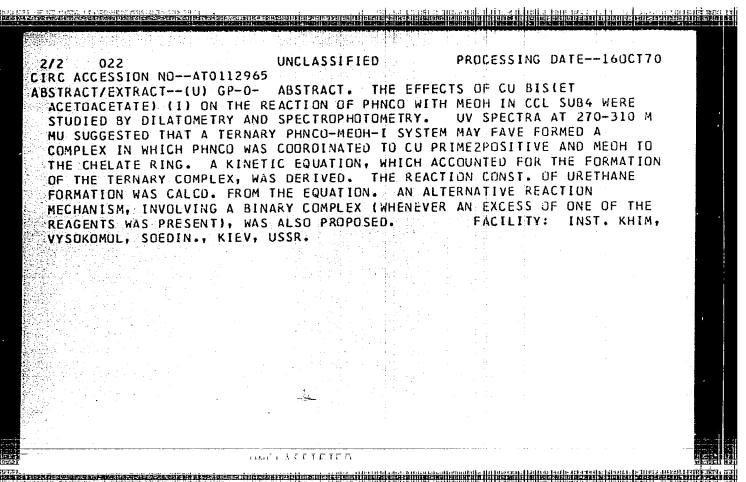
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PROCESSING DATE--160CT70 UNCLASSIFIED 1/2 TITLE--MECHANISM OF URETHANE FORMATION THROUGH A COMPUEX OF CATALYST AND REAGENTS -U-AUTHOR-(02)-LIPATOVA, T.E., NIZELSKIY, YU.N. COUNTRY OF INFO--USSR SOURCE--DOKL. AKAD. NAUK SSSR 1970, 190(4), 880-3 DATE PUBLISHED---- 70 1 SUBJECT AREAS -- CHEMISTRY, MATERIALS TOPIC TAGS--UV SPECTRUM, POLYURETHANE RESIN, COMPLEX COMPOUND, COPPER COMPLEX, METHANOL, CARBAMATE, CHEMICAL REACTION MECHANISM, KINETIC EQUATION, CALCULATION CONTROL MARKING--NO RESTRICTIONS DOCUMENT CLASS--UNCLASSIFIED STEP NO--UR/0020/70/190/004/0880/0883 PRDXY REEL/FRAME--1992/2010 CIRC ACCESSION NO--ATO112965

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002202220016-4"

UNCLASSIFIED



USSR

ALEKSEYEVSKIY, N. Ye., NIZHANKOVSKIY, V. I., Institute of Physical Problems, USSR Academy of Sciences

"Influence of Magnetic Breakdown on the Hall Effect in Beryllium"

Moscow, Zhurnal Eksperimental'noy i Teoreticheskoy Fiziki, Vol 65, No 3(9), Sep 73, pp 1076-1084

Abstract: Theoretical studies of magnetic breakdown are based on stochastic or coherent principles. In the stochastic approximation electron transitions from one classical orbit to another are considered independent. The coherent approximation accounts for phase relations in the wave functions of electrons multiply scattered by regions of the magnetic breakdown. The stochastic model is a satisfactory representation when describing the monotonic part of the resistance tensor, but certain peculiarities in the behavior of the oscillating part make it necessary to resort to the coherent model. In this paper the authors investigate the influence of magnetic breakdown on the nondiagonal element (ρ_{yx}) of the resistance tensor of beryllium. The experimental method used in the work is based on recording a signal proportional to ρ_{yx} as a function of ρ_{XX} (the diagonal

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ALEKSEYEVSKIY, N. Ye., NIZHANKOVSKIY, V. I., Zhurnal Eksperimental'noy i Teoreticheskoy Fiziki, Vol 65, No 3(9), Sep 73, pp 1076-1084

element). Analysis of the Hall constant as a function of the magnetic field showed that the breakdown field is approximately 110 kOe (about 8.75·10⁴ amp/cm). Giant oscillations of the field-wise symmetric component ρ_{yx} are observed. The coherent model of breakdown gives an explanation of a change of phase shift between oscillations of ρ_{yx} and ρ_{xx} which is observed when the hexagonal axis of the specimen is not parallel to the magnetic field. The authors thank A. A. Slutsnin and M. I. Kalganov for discussing the results.

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- 24 -

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002202220016-4"

USSR

UDC: 621.391.14

BOROVSKIY, V. P., VAS'KOVSKIY, I. I., NIZHEGOL'SKIY, Bend., PARTALA, O. N., Kiev Polytechnical Institute

"A Multiphase Amplitude-Modulated Very Low Frequency Voltage Oscillator"

Moscow, Pribory i Tekhnika Eksperimenta, No 2, Mar/Apr 70, pp 139-140

Abstract: The authors describe a multiphase generator of periodic signals of arbitrary form approximated by a step function. Provision is made for amplitude modulation of the output signal. A schematic diagram of the oscillator is given, as well as data on the nonlinearity of the modulation characteristics and the coefficient of nonlinear distortions for the case of a sinusoidal signal. The oscillator may be used for power supply to a three-phase synchronous motor as well as in other applications.

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002202220016-4"

USSR

UDC 669.15'26'74'295:620.193.17

NIZHEL'SKIY, P. YE., and SKOROKHOD, T. S., Kurgan Machine Building Institute

"Effect of Titanium on the Properties of Heat-Resistant Cr-Min Steel"

Moscow, Izvestiya Vysshikh Uchebnykh Zavedeniy--Chernaya Metallurgiya, No 6, June 73, pp 104-105

Abstract: The effect of titanium on the scaling resistance, structure, and mechanical properties of an austenitic steel containing (in 5): 0.4 C, 16 Cr, 13 Mn and 1.5 Si was investigated. It was established that titanium content of 0 to 1.5% increases the scaling resistance of the steel, lowers austenite stability, increases hardness, and diminishes impact strength. Titanium, being a ferrite-forming element, promotes the gamma-alpha transformation. 2 figures, 3 bibliographic references.

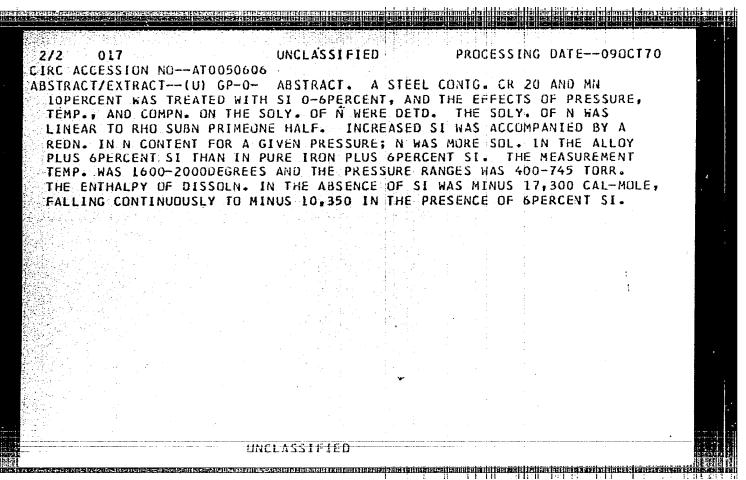
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- 26 -

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002202220016-4"

PROCESSING DATE--090CT70 UNCLASSIFIED 1/2 TITLE-SOLUBILITY OF NITROGEN IN MOLTEN ALLOYS OF THE IRON, CHROMIUM, MANGANESE, SILICON SYSTEM -U-AUTHUR-(02)-NIZHELSKIY, P.YE., RYSKINA, S.G. COUNTRY OF INFO--USSR SOURCE--IZV. VYSSH. UCHEB. ZAVED., CHERN. MET. 1970, 13(1), 56-60 DATE PUBLISHED---70 SUBJECT AREAS-MATERIALS TOPIC TAGS--IRON ALLOY, MANGANESE ALLOY, SILICON ALLOY, CHROMIUM STEEL, NITROGEN, SOLUBILITY, ENTHALPY CONTROL MARKING-NO RESTRICTIONS DOCUMENT CLASS--UNCLASSIFIED STEP NO--UR/0148/70/013/001/0056/0060 PROXY REEL/FRAME-1981/0599 CIRC ACCESSION NO--AT0050606 UNCLASSIFIED

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002202220016-4"



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UDC: 621.317.725(088.8)

SKRIPNIK, Yu. A., NIZHENSKIY, A. D., TSAREVA, N. M., Institute of Electrodynamics, Academy of Sciences of the UkrSSR

"A Selective Microvoltmeter With Fixed Passband"

USSR Author's Certificate No 259264, filed 7 Jun 68, published 23 Apr 70 (from RZh-Radiotekhnika, No 11, Nov 70, Abstract No 11A276 P)

Translation: In conventional circuits of selective microvoltmeters, the voltmeter readings are considerably dependent on the frequency of the input signal, temperature and the warm-up time of the instrument, which leads to appreciable measurement errors. The proposed device differs from existing instruments in the fact that the heterodyne inputs of the balance mixers of the amplification and conversion channel are interconnected and also connected to the heterodyne input of the balance mixer in the comparison channel; the output of the DC comparison channel is connected to the amplification control circuit of the difference frequency amplifier in the amplification and conversion channel. This type of connection prevents measurement error due to variations in temperature and in the warm-up time of the instrument. Resumé.

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- 114 -

UDC 621.317.332.6

KUSTOVSKAYA, V. N., NIZHENSKIY, A. D., SKRIPNIK, YU. A., TSAREVA, N. M.

"Procedure for Measuring the Frequency Errors of Voltage Dividers in a Broad

Moscow, Otkrytiya, Izobreteniya, Promyshlennyye Ohraztsy, Tovarnyye Znaki, No 17, 12 May 70, Pp 54, Patent No 270879, Filed 6 Nov 67

Translation: This Author's Certificate introduces a procedure for measuring the frequency errors of voltage dividers in a broad frequency range based on measuring the difference of the division coefficients of the voltage divider on two frequencies by comparing two voltages. In order to improve accuracy, voltages of the first and second frequency with equal amplitude are fed to the input of the investigated divider in turn with low commutation frequency. With a division coefficient equal to one, the output voltages of the investigated divider are rectified and amplified, the commutation frequency voltage is separated (synchronously detected) and measured; the second frequency voltage amplitude is varied to disappearance of the commutation frequency voltage, and with the division coefficient of the investigated divider, the separated commutation frequency voltage is measured the amplitude of which is proportional to the frequency error of the divider.

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CIA-RDP86-00513R002202220016-4" **APPROVED FOR RELEASE: 09/17/2001**

NIZHENSKIY M0047099_ Soviet Inventions Illustrated, Section II Electrical, Derwent, 243720 ELECTRONIC MULTIRANGE EFFECTIVE VALUES MILLIOVOLTHETER. Input Potential U1 through probe (1) and Vange selector (2) goes to wide band amplifier (3) whose amplification factor is determined by the number of connected cascades and the potential on the output of adjustable power source (4). In the effect of output potential U_2 a current passes through the heater of thermal converter (5) and to low-impedance resistor (6) in the heater circuit causing lowering of potential U3. The heater of thermal converter is protected from overloading by Zener diodes in antiparallel Input of amplifier potential U and potential U3, of equal value, from resistor (6) go to inputs of automatic commutator (8). Its commutations are effected by mains supply (50 Hz) through frequency divider (9), and from it are fed alternatively the potentials U_1 and U_3 which are being compared by amplitude detector (10). When these are unequal,

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on the output potential of commutator (8) appears amplitude modulation of commutation frequency which is sensed by detector (10) and in effect low-frequency potential is generated whose amplitude is proportional to the difference between amplitudes of potentials being compared.

The low-frequency potential is amplified by (11), rectified by phase-sensitive rectifier (12), and acts on the control circuit of adjustable power feed (4), and consequently the amplification factor of amplifier (3) is changed.

Effective value of current is passing through heater and thus the effective value of input potential is measured by d.c. indicator (13) connected to output of thermal converter (5).

12.10.67 as 1190007/18-10.A.D.NIZHENSKII 6 YU.A. SKRIPNIK. ELECTRODYNAMICS INST. of the ACADMY OF SCIENCES UKRAINIAN SSR. (3.10.69.) Bul 17/14.5.69. Class 21e. Int.Cl.G 01 r.

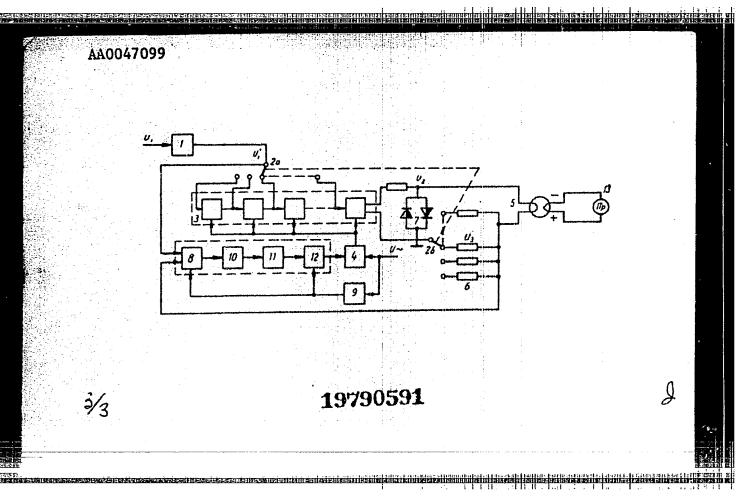
AUTHORS: Nizhenskiy, A. D.; Skripnik, Yu. A.
Institut Elektrodinamiki AN Ukrainskoy SSR

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UNCLASSIFIED

PROCESSING DATE--090CT70

TITLE—SCIENTIFIC AND TECHNICAL CONFERENCE ON HYDRAULIC DRIVES AND

HYDRAULIC AUTOMATION -U-

AUTHOR-NIZHEVENKO, M.D.

COUNTRY OF INFO--USSR

SOURCE-MUSCOW, VESTNIK MASHINUSTROYENIYA, NO 3, 1970, P 84

DATE PUBLISHED ------70

SUBJECT AREAS—MECH., IND., CIVIL AND MARINE ENGR, BEHAVIORAL AND SOCIAL SCIENCES

TOPIC TAGS-HYDRAULIC EQUIPMENT, AUTOMATION, HYDRAULIC DEVICE, CONFERENCE

CONTROL MARKING-NO RESTRICTIONS

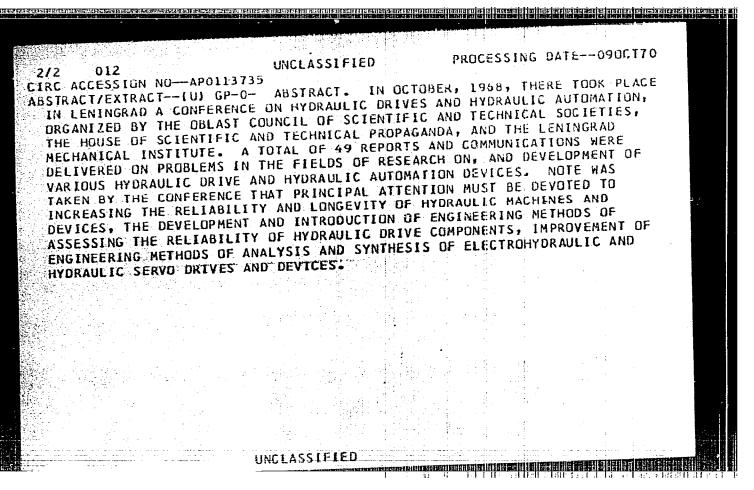
DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1993/0895

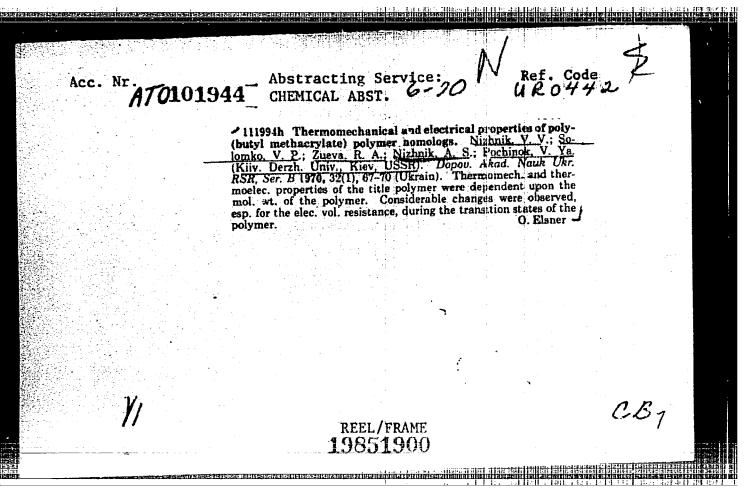
STEP NO--UR/0122/70/000/003/0084/0084

CIRC ACCESSION NO--AP0113735

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002202220016-4"





Acc. Nr:	Abstracting Service:	Ref. Code: UR 0441	
	~ 111987h Spatial structure formation and ther characteristics of polymer homologs. Nizhnik, ova. Ch. A.; Uskov. L. A.; Pochinok, V. 78. Bc (Kiiv. Derzh. Univ., Kiev. USSR). Dopov. Ak. RSR. Ser. A 1970, 32(1), 54-6 (Ukrain). Thermon properties of typical amorphous polymer homologs rylate were investigated. A forced flow point characteristic of the polymer) and a true flow const. of the polymer) were distinguished.	A.S.; Maksim- Frolikina, M.S. ad.: Nauk Ukr.	
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USSR

UDG 533.9.08

LONGINOV, A.V., LITVINOV, A.P., KITEYEVSKIY, L.KH., NIZHNIK, G.YA., FROLOV, V.A.

"System For Preliminary Ionization Of Gas In Closed Magnetic Traps"

Vestn. Khar'kov. politekhn. in-ta (Bulletin Of Kharkov Polytechnical Institute), 1970, No 50(98), pp 76-79 (from RZh-Elektronika i yeye rrimeneniye, No 1, January 1971, Abstract No 1A238)

Translation: A system is described for preliminary ionization of gas in closed magnetic traps. The system includes a high-frequency pulse generator, a modulator, and a number of electron devices for control and monitoring. A special discharger for obtaining a short trailing edge is introduced into the generator. The following are the basic parameters of the system power in a pulse, up to 500 km; operating frequency, 100 kHz; pulse duration, to 5 microsec. 4 ill. 4 ref. Summary.

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VDC 533.9.08

LONGINOV, A. V., NIZHNIK, C. YA

"New Types of Resonance Systems for High-Frequency Heating of Plasma"

Vestn. Khar'kov. politekhn. in-ta (Bulletin of the Khar'kov Polytechnical Institute), 1970, No 50(98), pp 105-110 (from RZh--Elektronika i yeye primeneniye, No 1, January 1971, Abstract No 1A235)

Translation: New types of resonance systems for excitation of ion-cyclotron or magneto-sonic waves in plasma are described. The results are presented of investigations of a mock-up of a power resonance system for the "Uragan" unit. 5 ill. 5 ref. Summary.

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Steels

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UDC 669.01:539.4.015

CHERNYAK, N. I., NIZHNIK, S. B., and OSTROVSKAYA, V. P., Institute of Mechanics, Academy of Sciences Ukrainian SSR, Kiev

"Change in the Structure and Mechanical Properties of Stainless Martensite-Aged Steel During Plastic Deformation"

Kiev, Fiziko-Khimicheskaya Mekhanika Materialov, Vol 6, No 6, 1970, pp 28-32

Abstract: The phenomenon and several structural causes of hardening of EP-288 and EP-410 stainless Martensite-aged steels were studied with a pre-determined combination of preliminary deformation and aging. Preliminary deformation intensifies the hardening process and significantly increases the strength of the steel with optimal treatment conditions. The structural hardening factors are related to the influence of preliminary deformation on the stress state of the Martensite in the aged steel, the process of separation and the nature of the distribution of intermetallide and carbide phases.

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USSR

UDC 669.01:539.4.015

NIZENIK, S. B., PELEPELIN, V. M., USIKOVA, G. I., and CHERNYAK, N. I., Kiev

"Mechanical Properties and Structure of Stainless Martensite-Containing Steel in the Hardened State"

Kiev, Problemy Prochnosti, No 12, Dec 70, pp 41-44

Abstract: The modes for hardening of types Kh16N6 and Kh16N5D3 steel leading to an increase in the resistance to plastic deformation in extension and compression are determined on the basis of a combination of processes of preliminary deformation and aging. The hardened state of Kh16N6 steel is characterized by formation of a more highly stressed submicrostructure of the martensite and coherently bonded segregations (in comparison with the tempered state). Kh16N5D3 steel is characterized by a decrease in the number of defects in the martensite and segregation of incoherent particles of the hardening phase.

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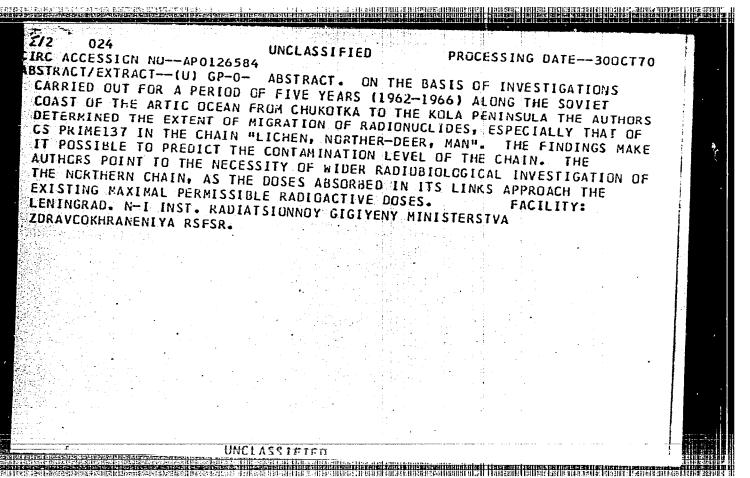
Acc. Nr. A70101944 CHEMICAL ABST.

Abstracting Service: ORef. Code URO442

Allegan American and electrical properties of poly(butyl methacrylate) polymer homologs. Nithnik V. V. So(butyl methacrylate) polymer homologs. Nithnik V. V. So(butyl methacrylate) polymer homologs. Nithnik V. V. So(kiiv. Derth. Univ. Kiev. USSR). Dippo. Akad. Nata. Ukr.
ASK. Ser. B 1970, 3210, 67-70 (Usrain). Thermometha and thermoelec. properties of the litle polymer were dependent upon the
mol. wt. of the polymer. Considerable changes were observed,
esp. for the elec. vol. resistance, during the transition states of the
polymer.

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AUTHOR-(05)-RAMZAYEV, P.V., T A.A., NIZHNIKOV, A.I. COUNTRY OF INFO-USSR, ARCTIC	TROITSKAYA, M.N., IBATULLIN, M.S., MOISEYEV.	3 4.0
SOURCE-GIGIYENA I SANITARIYA	1, 1970, NR 6, PP 38-42	
DATE PUBLISHED70		
SUBJECT AREAS—BIOLOGICAL AND	MEDICAL SCIENCES	
TOPIC TAGS—CESIUM ISOTOPE, RA	ADIOACTIVE WASTE, ECOLOGY, GEOGRAPHIC	To the second se
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VDC 632.95

ABRAMOVA, K. A., SHIRANKOV, D. F., NIZHNIKOVA, YE. YE., and RUDAVSKIY, V. P.

"A Herbicide"

USSR Authors' Certificate No 301141, C1. A 01 n 9/02, filed 12 May 70, published 2 Dec 71 (from RZh-Khimiya, No 14, 25 Jul 72, Abstract No 14N537P by T. A. BELYAYEVA)

Translation: The authors suggest the application as herbicides of alkyl esters of chlorinated fatty acids with the formula RCH_2CCl_2COOR' (I) $R = MeC_6H_4$, $MeCC_6H_4$, ClC_6H_4 , BrC_6H_4 , $NO_2C_6H_4$, R' = Me, Et), which are obtained by the reaction of nitriles of aliphatic-aromatic acids and alcohols. I's, inactive when applied to the soil, displayed high herbicidal activity when sprayed on the green mass of vegetation. I $(R-p-MeCC_6H_4)$, R' = Me displays selectivity for monocotyledonous crops and beans.

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WDC 546.185

SHEVCHENKO, V. I., NIZHNIKOVA, Ye. Ye., Institute of Organic Chemistry, Academy of Sciences Ukrainian SSR

"Phosphorylation of 2-Chloro-3-Arylpropionitriles"

Leningrad, Zhurnal Obshchei Khimii, Vol 40, No 6, Jun 70, pp 1219-1225

Abstract: Trichlorophosphazo-1,1,2,2-tetracnloro-3-arylpropanes, with C₆H₅, o-ClC₆H₄, p-BrC₅H₄, o-NO₂C₆H₄, p-NO₂C₆H₄, m-Ch₃C₆H₄, p-CH₃C₆H₄, or p-Ch₃OC₆H₄ as the aryl group, were prepared by the reaction of the corresponding 2-chloro-3-arylpropionitriles with PCl₅. The products are easily hydrolyzed by atmospheric moisture. Work-up of the products yielded the corresponding 2,2-dichloro-3-arylpropionic acid nitriles or n-dianilidophosphonyl-2,2-dichloro-3-aryliminopropionic acid anilides, depending on the procedure used.

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002202220016-4"

USSR

UDC 612.017.1-06:551.581(213)

SHAFRAN, L. M., and NIZHNIY. I. K., Basin Sanitary Epidemiological Station of the Black-Azov Sea Maritime Health Department

"Changes in Nonspecific Immunological Reactivity in Sailors During Tropical Cruises"

Moscow, Zhurnal Mikrobiologii Epidemiologii i Immunobiologii, No 12, 1972, p 132

Abstract: During cruises in tropical zones with an embient temperature of 47-52°C and a relative humidity of 40%, Black Sea sailors suffer from a depression in nonspecific immune reactivity. The concentration of neutrophils, eosinophils, and lymphocytes in peripheral blood decreases, while the number of monocytes increases. Phagocytic activity of neutrophils is reduced, and alkaline phosphatase activity in these cells is lowered from 30 to 16 units. Furthermore, there is a statistically significant reduction in complement titers (from 0.043 to 0.036), properdin (from 153 to 101), and lysozyme (from 487 to 100 to 291). After about 1 month, partial acclimatization takes place, which is followed by a second wave of deteriorating condition in the 5th month in the tropics. The fluctuation in nonspecific immune reactivity during prolonged cruises in tropical zones are reflected in the sailors' morbidity which is high in the 1st month, decreases during the next 3 months, and rises again in the 5th month.

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UNCLASSIFIED

PROCESSING DATE--04DEC70

TITLE--HOLD LININGS -U-

AUTHOR-(05)-NIZKOVSKIKH, V.M., KURUKLIS, G.L., GELFENBEIN, E.YU.,

TARLINSKIY, T.V., KHOREV, V.N.

COUNTRY OF INFO--USSR

SOURCE--GER. 1,558,150

DATE PUBLISHED-14MAY 70

SUBJECT AREAS -- MATERIALS

TOPIC TAGS--CHEMICAL PATENT, MOLD LUBRICANT, EPOXY RESIN, MOLYBDENUM DISULFIDE, TOLUENE, BUTANOL, ETHANOL, KETONE, ETHYLENE GLYCOL, ACETATE, PETROLEUM PRODUCT, ORGANIC SOLVENT, METAL CASTING, MOLDING MATERIAL

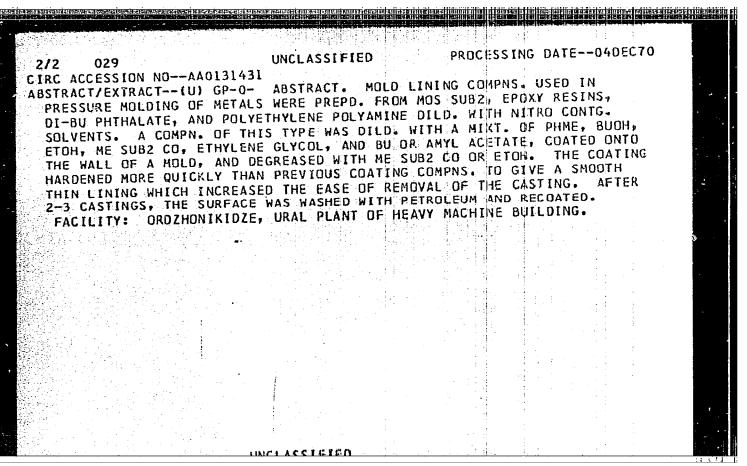
CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3004/0838

STEP NO--GY/0000/70/000/000/0000/0000

CIRC ACCESSION NO--AA0131431

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1/2 027 UNCLASSIFIED PROCESSING DATE--27NOV70 TITLE--TITANIUM DISILICIDE PREPARATION -U-

AUTHOR-(03)-DELIMARSKIY, YU.K., CHERNOV, R.V., NIZOV, A.P.

COUNTRY OF INFO--USSR

SOURCE-U.S.S.R. 264,696 REFERENCE-OTKRYTIYA, IZOBRET., PROM. OBRAZTSY, TOVARNYE ZNAKI 1970, 47(9) DATE PUBLISHED-O3MAR70

SUBJECT AREAS -- CHEMISTRY

TOPIC TAGS--CHEMICAL PATENT, ELECTROLYSIS, INERT GAS, TITANIUM COMPOUND, SILICIDE, FLUORIDE, ALKALI METAL, HALIDE, ARGON

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3001/1467

STEP NO--UR/0482/70/000/000/0000/0000

CIRC ACCESSION NO--A40126998
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UDC: 533.932

NIZOVSKIY, V. L., SHABASHOV, V. I., Institute of High Temperatures of the Academy of Sciences of the USSR

"On the Problem of Measuring the Thermal Conductivity of a Hydrogen Plasma in a Stabilized Electric Arc"

Moscow, Teplofizika Vysokikh Temperatur, Vol 11, No 2, Mar/Apr 73, pp 251-255

Abstract: An explanation is proposed for the causes of the discrepancy between theoretical and experimental data on the thermal conductivity of a hydrogen plasma. It is shown that the deviation in the temperature region between the dissociation and ionization peak of thermal conductivity is due to the disruption of chemical equilibrium in the wall zone of the arc. In the temperature region beyond the ionization peak the concentration of neutral atoms changes by a considerable factor even with a small deviation of the degree of ionization from equilibrium. This may lead to an appreciable error in the measurement of temperatures and hence to an error in determination of thermal conductivity. The authors thank E. I. Asinovskiy for formulating the problem and for continued interest in the work.

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002202220016-4"

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WC 547.341

SHISHKIN, B. YE., YELFIMOVA, S. N., and NO, B. I., Volgograd Polytechnical

"Conversion of Hydrochlorides of C-Phosphorylated Imidates Into Amides and Phosphonylcarboxylate Esters"

Leningrad, Zhurnal Obshchey Khimii, Vol 42(104), Vyp 10, 1972, pp 2346

Abstract: Thermal decomposition of the hydrochlorides yielded alkyl chlorides and amides of β -dialkylphosphonylcarboxylic acids according to

The reaction was carried out at 110-130°C; alkyl chlorides were collected in a trap cooled to -70°C, amides were viscous liquids which crystallized in (III):

 $I + H_2O \rightarrow (HO_{j2}r_1O)CH_2CH_2C(O)OR + NH_4CI$

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- 21 -

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SHISHKIN, B. YE., et al., Zhurnal Obshchey Khimii, Vol 42 (104), Vyp 10, 1972, p 2346

Boiling points of amides (IIa) and (IIb) were 103-105 and 112-113°C, respectively. Ester (IIIa) was characterized by b.p. 110° C, d_{4}^{20} 1.0430, n_{D}^{20} 1.4350, MR_{D} 70.04; and ester (IIIb), b.p. 156°C, d_{4}^{20} 1.0020, n_{D}^{20} 1.4360, MR_{D} 84.00. Both esters had an absorption band at 1740 cm⁻¹ in their IR spectra.

2/2

USSR

UDO 537.311.33:546.289

KONOPLEVA, R.F., NOBIKOV, S.R., HUBINOVA, E.E., ZAPOROZHCHENKO, YU.A.

"Investigation Of Radiation Defects In Germanium With Irradiation By High Energy Protons"

V sb. Radiatsion. fiz. nemet. kristallov (Radiation Physics Of Nonmetal Grystals--Collection Of Works), Minsk, Nauka i tekhn., 1970, pp 106-111 (from RZh--Elektronika i yeye primeneniye, No 1, January 1971, Abstract No 1825)

Translation: The results are presented of an investigation of the temperature dependence and spectral curves of the impurity photoconductivity for n-type Ge with an initial concentration of Sb of 2.10¹/₂ cm⁻² and of p-type with a concentration of Ge of 4.10¹⁴cm⁻³ irradiated by protons with an energy of 660 MeV with various integrated fluxes (from 1.10¹¹ to 1.10¹⁴ r/cm²). The initial rate of formation is determined for the defects, which for n- and p-Ge proved to be on the order of 10² cm⁻¹. The theoretical computation presented of the number of displaced atoms shows that the portion in the formation of defects as a result of Rutherford scattering is small. The number of displaced atoms owing to nuclear elastic and nonelastic interactions amount to 10² and 10² cm⁻¹, respectively. It is found that during irradiation, acceptor levels are primarily found

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in n- and p-type Ge. From the temperature dependence of the Hall constant and the spectral curves of the impurity photoconductivity, the eight levels pertaining to the radiation defects are determined (E_c = 0.1 e.v., E_c = 0.20 e.v., E_c = 0.20 e.v., E_c = 0.27 e.v., E_c = 0.27 e.v., E_c + 0.27 e.v., E_V + 0.20 e.v., E_V + 0.12 e.v., E_V + 0.065 e.v.) 6 ill. 2 tab. 2 ref. Summary.

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UDO 557.311.33:546.289

KONOPLEVA, R.F., NOBIKOV, S.R., RUBINOVA, E.E., ZAPOROZHCHENKO, YU.A.

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Translation: The results are presented of an investigation of the temperature dependence and spectral curves of the impurity photoconductivity for n-type Ge with an initial concentration of Sb of 2.10¹⁵ cm⁻² and of p-type with a concentration of Ga of 4.10¹⁴cm⁻³ irradiated by protons with an energy of 560 Mev with various integrated fluxes (from 1.10¹¹ to 1.10¹⁴ r/cm²). The initial rate of formation is determined for the defects, which for n- and p-Ge proved to be on the order of 10² cm⁻¹. The theoretical computation presented of the number of displaced atoms shows that the portion in the formation of defects as a result of Rutherford scattering is small. The number of displaced atoms owing to nuclear elastic and nonelastic interactions amount to 10³ and 10² cm⁻¹, respectively. It is found that during irradiation, acceptor levels are primarily found the spectral curves of the impurity photoconductivity, the eight levels pertaining to the radiation defects are determined (E_C - 0.1 e.v., E_C - 0.20 e.v., E_C - 0.27 e.v., E_C - 0.34 e.v., E_C + 0.27 e.v., E_C + 0.20 e.v., E_C + 0.12

UDC 619:616.576.858.2

NOCHEVNYY, V. T. All Union Scientific Research Institute of Veterinary Virology and Microbiology

"Methods of Culturing Aujeszky's Disease Virus in Cell Suspensions"

Moscow, Veterinariya, No 10, Oct 70, pp 44-47

Abstract: Aujeszky's disease virus (modified BUK strain, virulent P strain, and virulent Vratsa strain) was successfully cultured in suspensions of 10to 11-day chick embryo cells without mixing (stationary method), in rotating vessels (roller method), and in special vessels with suspended magnets (spinner method). The optimum cultivation conditions were as follows: cell concentration, 2.0 to 4.0 million/ml; infective dose of 0.01 to 0.5 TCD50/ml per cell; addition to the medium of 1 to 10% cattle serum; pH 7.4 to 7.8; and filling of the vessels to 0.3 to 0.7 of the total volume. All three strains tested accumulated to the same extent. Comparative serial passaging of the virus in suspension and monolayer showed that the titer increased with the number of passages and, in most cases, was higher after submerged culturing.

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CIA-RDP86-00513R002202220016-4" APPROVED FOR RELEASE: 09/17/2001

VERSHIGORA, A. Ye., DYACHENKO, S. S., LISUNKINA, I. K., MORGUNOV, I. N., NOGACHEVSKIY, I. I., TEREKHOV, S. N., CHERNUSHENKO, Ye. F., and YAGUD, S. L., Editors, Ministry of Health, Ukrainian SSR

Immunologiya. Respublikanskiy mezhvedomstvennyy sbornik (Irmunology. Republic Interdepartmental Collection), No 5, "Zdorov'ya," Kiev, 1972

Translation: Annotation: Articles included in the collection deal with the most pressing problems of theoretical and practical immunology, viz., mechanism of the formation of antibodies and immunological reactivity, allergy and clinical and experimental immunopathology, specific prophylaxis, and reactogenicity of vaccines and postvaccinal complications. Works aimed at devising methods of immunological investigations help to solve problems of modern immunology.

The previous four issues of this collection were published under the title of "Voprosy Immunologii" (Problems of Immunology).

The collection is of interest to scientific workers, practitioners of various specialties, and to senior students of medical institutes.

191 pages. 52 Russian articles with Russian abstracts. 1/10

CIA-RDP86-00513R002202220016-4" **APPROVED FOR RELEASE: 09/17/2001**

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Kiev, 1972	Page
Contents Mechanism of Formation of Antibodies and Immunological Reactivity and Secondary Morgunov, I. N., Bordonos, V. G., Kolesnikov, M. M. Formation of Morgunov, I. N., Colls of Lymph Nodes in Primary and Secondary	
Morgunov, I. N., Bordonos, V. G., Kolesnikov, H. H. Antibodies by Cells of Lymph Nodes in Primary and Secondary Immunological Response. Aronov, G. A., Gandziy, G. P. The Study of Early Stages of the Aronov, G. A., Gandziy, G. P. The Study of the Organism Formation of Antibodies by Immunocompetent Cells of the Organism	3
Aronov, G. A., Antibodies by Immunocomperent Certification of Antibodies by Immunocomperent	
in the Process of Lamana, V. G., Kolesnikov, M. M. A. Callular Level	10
Summation Reculiarities of Resorption of Diput	13
Lisunkina, I. K. Peculiarities in the Organism of Experimental Animals in the Organism of Experimental Animals Lisunkina, I. K. Immunofluorescent Method of Studying the Antibody Lisunkina, I. K. Immunofluorescent Method of Studying the Antibody Lisunkina, I. K. Immunofluorescent Method of Studying the Antibody Lisunkina, I. K. Peculiarities in the Organism of Experimental Animals in the Organism of Experimental Animals in the Organism of Experimental Animals	16
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VERSHIGORA, A. Ye., et al., Immunologiya. Respublikanskiy mezhvedomstv. sbornik (Immunology. Republic Interdepartmental Collection), No 5, "Zd sbornik (Immunology.		
Marian Transfer 1977	Page	
c +La Cunthesis VI		
Sokhin, A. A., Lysakova, V. I. Induction of the Synthesis of Sokhin, A. A., Lysakova, V. I. Induction of the Synthesis of Antibodies and Formation of Anamnestic Reactions on Administration Antibodies and Formation of Anamnestic Reactions on Administration	19	
The turn Animals	13	
Servicus Doses of reliable the refinence of Cervical		
of Various Doses of Pertussis Antigen to Immature Antibodies of Various Doses of Pertussis Antibodies of Various Doses of Pertus Doses of P	22	
Special postion of the symposius		
Antibodies Dyachenko, S. S., Karavanskaya, N. A., Comparative Study of the Dyachenko, S. Progriden and the Level of Antibodies in Lymph Nodes		
Dyachenko, S. S., Karavanskaya, N. A., Comparative Stady Dyachenko, S. S., Comparative Stady Dyachenko, S. S., Karavanskaya, N. A., Comparative Stady Dyachenko, S. S., Karavanskaya, N. A., Comparative Stady Dyachenko, S. S., Karavanskaya, N. A., Comparative Stady Dyachenko, S. S., Comparative Stady Dyachenko, S.	26	
Plasmocytic Reaction and the Level of Antibody-Forming Cells in of Rats on Vaccination Under the Action of Hormones		
of Rats on Vaccination Under the Action of Holmones of Rats on Vaccination Under the Action of Holmones Chebotarev, V. F. Hemolysin Titers and Antibody-Forming Cells in Chebotarev, V. F. Hemolysin Titers and Antibody-Forming Cells in Chebotarev, V. F. Hemolysin Titers and Antibody-Forming Cells in		
A DIANA OF WHILE NOVE	31	
Acetate (DOCA)	••	
Acetate (DOCA) Acetate (DOCA) Moroz, A. P. A Study of Antibody-Forming Cells in Lymphatic Nodes Moroz, A. P. A Different Protein Rations	33	
t wader of will be well	37	
and thermal Regime	31	
on Their Vaccination Under Conditions of Activation and Potentiation	41	
Minervin. S. M. (decu.).		٠
of Bacterial Toxins	•	
3/10		
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Chernushenko, Ye. F. Some of Antibiotics	Allergy and Immunopathol Data on Mechanism of A	ogy llergizing Actio of Fungous Alle		
on Phagocytic Function of Bubliy, V. P., Panchenko, the Blood of Patients A Other Diseases	or Neutrophits in Allerg	es Occurring in		·
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sbornik (Immunology. Republic International Kiev, 1972	Page
Urazalin, M. M. On Antigenic Properties of Penicillin and	65
Streptomycin Streptomycin Streptomycin Streptomycin Streptomycin Streptomycin Streptomycin	66
Thrombocytopenic rulpate Thrombocytopenic rulpate Loginskiy, V. Ye., Dudykevich, G. B. Blastotransformation as the Loginskiy, V. Ye., Dudykevich, G. B. Blastotransformation as the Loginskiy, V. Ye., Dudykevich, G. B. Blastotransformation as the Loginskiy, V. Ye., Dudykevich, G. B. Blastotransformation as the Loginskiy, V. Ye., Dudykevich, G. B. Blastotransformation as the Loginskiy, V. Ye., Dudykevich, G. B. Blastotransformation as the Loginskiy, V. Ye., Dudykevich, G. B. Blastotransformation as the Loginskiy, V. Ye., Dudykevich, G. B. Blastotransformation as the Loginskiy, V. Ye., Dudykevich, G. B. Blastotransformation as the Loginskiy, V. Ye., Dudykevich, G. B. Blastotransformation as the Loginskiy, V. Ye., Dudykevich, G. B. Blastotransformation as the Loginskiy, V. Ye., Dudykevich, G. B. Blastotransformation as the Loginskiy, V. Ye., Dudykevich, G. B. Blastotransformation as the Loginskiy, V. Ye., Dudykevich, G. B. Blastotransformation as the Loginskiy, V. Ye., Dudykevich, G. B. Blastotransformation as the Loginskiy, V. Ye., Dudykevich, G. B. Blastotransformation as the Loginskiy, Loginskiy, Loginskiy, G. B. Blastotransformation as the Loginskiy, Loginskiy, G. B. Blastotransformation as the Loginskiy, Loginskiy, Loginskiy, G. B. Blastotransformation as the Loginskiy, Login	68
With Hemoblastosis Mikhnev, A. L. (decd.), Ptukha, R. M., Grinevich, Yu. A. On recu- Mikhnev, A. L. (decd.), Ptukha, R. M., Grinevich, Yu. A. On recu- Mikhnev, A. L. (decd.), Ptukha, R. M., Grinevich, Yu. A. On recu- Mikhnev, A. L. (decd.), Ptukha, R. M., Grinevich, Yu. A. On recu- Mikhnev, A. L. (decd.), Ptukha, R. M., Grinevich, Yu. A. On recu- Mikhnev, A. L. (decd.), Ptukha, R. M., Grinevich, Yu. A. On recu- Mikhnev, A. L. (decd.), Ptukha, R. M., Grinevich, Yu. A. On recu- Mikhnev, A. L. (decd.), Ptukha, R. M., Grinevich, Yu. A. On recu- Mikhnev, A. L. (decd.), Ptukha, R. M., Grinevich, Yu. A. On recu- Mikhnev, A. L. (decd.), Ptukha, R. M., Grinevich, Yu. A. On recu- Mikhnev, A. L. (decd.), Ptukha, R. M., Grinevich, Yu. A. On recu- Mikhnev, A. L. (decd.), Ptukha, R. M., Grinevich, Yu. A. On recu- Mikhnev, A. L. (decd.), Ptukha, R. M., Grinevich, Yu. A. On recu- Mikhnev, A. L. (decd.), Ptukha, R. M., Grinevich, Yu. A. On recu- Mikhnev, A. L. (decd.), Ptukha, R. M., Grinevich, Yu. A. On recu- Mikhnev, A. L. (decd.), Ptukha, R. M., Grinevich, Yu. A. On recu- Mikhnev, A. M., Grinevich, Yu. A. M., M., M., M., M., M., M., M., M., M.	70
Nonspecific immunity	75
Patients With hypertension of Regional Lymph Nodes on Homotransplan	78
tation of Bony Tissue of Different Storage Life tation of Bony Tissue of Different Storage Life (Syulling, E. V. Dynamics of the Functional State of Sound and (Syulling, E. V. Dynamics of the Functional State of Sound a	82
5/10	Erser Brunna - Hrechtstein der State
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VERSHIGORA, A. Ye., et al., Immunologiya. Respublikanskiy mezhvedomst sbornik (Immunology. Republic Interdepartmental Collection), No 5, "2	Zdorov'ya," Page	
Kiev, 1972	rage	
Balitskiy, K. P., Veksler, I. G., Rachkovskaya, G. P., Struk, V. I., Umanskiy, Yu. A., Fedorovskaya, M. I., Kharzhevskaya, A. N. Change Umanskiy, Yu. A., Fedorovskaya, Reactivity of Experimental Animals	s .	
in the State of Immunological Reaction Champtherapy	87	
Suponitskaya, V. M. A Study of the Influence System	92	
Suponitskaya, V. M. On the influence of American Protection	96	
Andreychin, The State of Bactericians Penatitis	99	
Batyuk, I. F., Gorchakov, V. A. The Action of	102	
Mitochondria of Human Tonsils Mitochondria of Human Tonsils Kryshtab, A. M. Changes in Certain Factors of Immunological Reac- Kryshtab, A. M. Changes in Certain Factors of Metallic Chromium tivity of the Organism Under the Effect of Metallic Chromium	104	
Dust and Its Refractory Compounds 6/10		
- 91 -		

VERSHIGORA, A. Ye., et al., Immunologiya. Respublikanskiy mezhvedomstvennyy sbornik (Immunology. Republic Interdepartmental Collection), No 5, "Zdorov'ya," Kiev, 1972 Page Specific Prophylaxis Shekhter, A. B., Tsipershteyn, M. Ya. A Study of Immunological Structure of the Population of Darnitskiy Rayon of the City of Kiev With Respect to Measles Popkova, Ye. G., Kosarikhina, N. A., Madovskaya, F. Ya. Reactions to Vaccinations and Complications Caused by Them Proskurov, V. A. Autovaccinotherapy in Staphylococcal Sepsis Khil'ko, I. N. Reactogenic and Immunogenic Properties of Living Measles Vaccine of the Academy of Medical Sciences USSR, Strain EShCh Pozhidayeva-Sinitsyna, L. A. The Influence of Aluminum Alum Precipitated Streptococcal Allergen on the Formation of Antitetanic Immunity Stratiyenko, L. M., Yakovenko, Z. F., Itkis, S. N., Kuznetsov, G. M., Trubina, L. M. The State of Immunity in Children Inoculated With Measles Vaccine, Strain EShCh 122 7/10			
Shekhter, A. B., Tsipershteyn, M. Ya. A Study of Immunological Structure of the Population of Darnitskiy Rayon of the City of Kiev With Respect to Measles Popkova, Ye. G., Kosarikhina, N. A., Madovskaya, F. Ya. Reactions to Vaccinations and Complications Caused by Them Proskurov, V. A. Autovaccinotherapy in Staphylococcal Sepsis Khil'ko, I. N. Reactogenic and Immunogenic Properties of Living Measles Vaccine of the Academy of Medical Sciences USSR, Strain EShCh Pozhidayeva-Sinitsyna, L. A. The Influence of Aluminum Alum Precipitated Streptococcal Allergen on the Formation of Anti- tetanic Immunity Stratiyenko, L. M., Yakovenko, Z. F., Itkis, S. N., Kuznetsov, G. M., Trubina, L. M. The State of Immunity in Children Inocu- lated With Measles Vaccine, Strain EShCh	USSR	•	
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Specific Prophylaxis Shekhter, A. B., Tsipershteyn, M. Ya. A Study of Immunological Structure of the Population of Darnitskiy Rayon of the City of Kiev With Respect to Measles Popkova, Ye. G., Kosarikhina, N. A., Madovskaya, F. Ya. Reactions to Vaccinations and Complications Caused by Them Proskurov, V. A. Autovaccinotherapy in Staphylococcal Sepsis Khil'ko, I. N. Reactogenic and Immunogenic Properties of Living Measles Vaccine of the Academy of Medical Sciences USSR, Strain EShCh Pozhidayeva-Sinitsyna, L. A. The Influence of Aluminum Alum Precipitated Streptococcal Allergen on the Formation of Antitetanic Immunity Stratiyenko, L. M., Yakovenko, Z. F., Itkis, S. N., Kuznetsov, G. M., Trubina, L. M. The State of Immunity in Children Inoculated With Measles Vaccine, Strain EShCh 107 110 1110 1111 1115 1115	Kiev, 1972		Page
Shekhter, A. B., Tsipershteyn, M. Ya. A Study of Immunological Structure of the Population of Darnitskiy Rayon of the City of Kiev With Respect to Measles Popkova, Ye. G., Kosarikhina, N. A., Madovskaya, F. Ya. Reactions to Vaccinations and Complications Caused by Them Proskurov, V. A. Autovaccinotherapy in Staphylococcal Sepsis Khil'ko, I. N. Reactogenic and Immunogenic Properties of Living Measles Vaccine of the Academy of Medical Sciences USSR, Strain EShCh Pozhidayeva-Sinitsyna, L. A. The Influence of Aluminum Alum Precipitated Streptococcal Allergen on the Formation of Antitetanic Immunity Stratiyenko, L. M., Yakovenko, Z. F., Itkis, S. N., Kuznetsov, G. M., Trubina, L. M. The State of Immunity in Children Inoculated With Measles Vaccine, Strain EShCh	a. atta Deabalaria		
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EShCh Pozhidayeva-Sinitsyna, L. A. The Influence of Aluminum Alum Precipitated Streptococcal Allergen on the Formation of Anti- tetanic Immunity Stratiyenko, L. M., Yakovenko, Z. F., Itkis, S. N., Kuznetsov, G. M., Trubina, L. M. The State of Immunity in Children Inocu- lated With Measles Vaccine, Strain EShCh 122	Proskurov, V. A. Autovaccinotherapy in Staphyloc	coccal depois erties of Living	113
Precipitated Streptococcal Allergen on the Formation of Anti- tetanic Immunity Stratiyenko, L. M., Yakovenko, Z. F., Itkis, S. N., Kuznetsov, G. M., Trubina, L. M. The State of Immunity in Children Inocu- lated With Measles Vaccine, Strain EShCh 122	EShCh L. A. The Influence of Al	Luminum Alum	115
G. M., Trubina, L. M. The State of Immunity in Children Thocus lated With Measles Vaccine, Strain EShCh	Precipitated Streptococcal Allergen on the rotal	MACTON OF WHEE	118
7/10	C. M. Trubina, L. M. The State of Immunity in	n Children Inocu-	122
	7/10		
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(iev, 1972	- v a strate W A Tond	ek nya	Page	
e v Dudnik R. M. R	Relationship Between the Time of	Cofferageron		
to the Data of Hemagoli	el of Antibodies to This Infection tination Inhibition Reaction perimental Investigation of Inhib		124	
Activity of the Serum 1	n Brucellosis n the Role of Antitoxic Immunity		127	
m	eria Carriage ace of Decamethylene-1,10-BIS (N-	and the second second	131	
methylcarbmenthoxymethy	planmonium) dichioride on liters		133	
Service Vo V. Immunologi	ical Shifts in the Organism of An Vaccine and Its Components	Imars ohou	136	
Method Chernushenko, Ye. F. App Detection of Antitubero	ds of Immunological Investigation olication of Immunofluorescent Me	s thod for	141	
Detection of Antituber	MIDSIS WHITTHOUTED			

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VERSHIGORA, A. Ye., et al., Immunologiya. Respublikanskiy mezhvedom		
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Kiev, 1972	Page	
Mol'chenko, Ye. F., Buyanovskaya, N. V., Krivets, T. A. On the	J	
Procedure for the Use of the Immunofluorescent Method for the		
Study of Antibody Formation in White Rats Immunized With Living		
Culture of RH Strain of Toxoplasma	143	
Degtyar, N. V. Investigation of Protein Fractions of the Blood Serum of Rabbits Infected With Brucella of Various Degrees of	. •	
Virulence	145	
Mogireva, L. A. Serological Diagnosis of Leptospirosis Using the	-	
Passive Hemagglutination Reaction	148	
Korenev, I. P., Koreneva, G. P., Shikayeva, F. V. The Use of the		
Immunological Method of Determining Luteinizing Hormone of the		
Hypophysis for the Study of Certain Forms of Pathology of	1.51	
the Menstrual Cycle Grazhdanov, N. P. The Possibility of Using V-Hemagglutination	151	
Reaction With Erythrocytic V-Diagnosticum as a Method of Mass		
Examination of the Population for Typhoid Carrying	155	
Kogosova, L. S. On Immunological Criteria of the Activity of the		
Tuberculous Process	157	
9/10		

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		. Washing Jones	Page	
Fluorescent Antibodies	Yu. A. Application of the for Studying Localization	of Typhoid	162	
Antigen in Experimental	Intection	lococcal	102	
Valkovtsy, A. A. A Study	of the Content of Staphy. Blood Serum of Healthy and	d Sick Persons	165	
Antilecithinase in the	ical Investigations in Dia	agnosis of		
Berezka, 5. 1. Immunorog	Pancreatitis in Patients	Affected With		
Peptic Ulcer and Chroni	c Cholecystitis		167	
Abstracts			173	
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40/40				•
10/10				
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UNCLASSIFIED PROCESSING DATE--18SEP70

TITLE--ON NUTRITIVE ALLERGY -U
AUTHOR-(02)-NOGALLER, A.M., GORBUNOV, YU.V.

COUNTRY OF INFO--USSR

SOURCE--VRACHEBNOYE DELO, 1970, NR 2, PP 82-84

DATE PUBLISHED-----70

SUBJECT AREAS--BIOLOGICAL AND MEDICAL SCIENCES

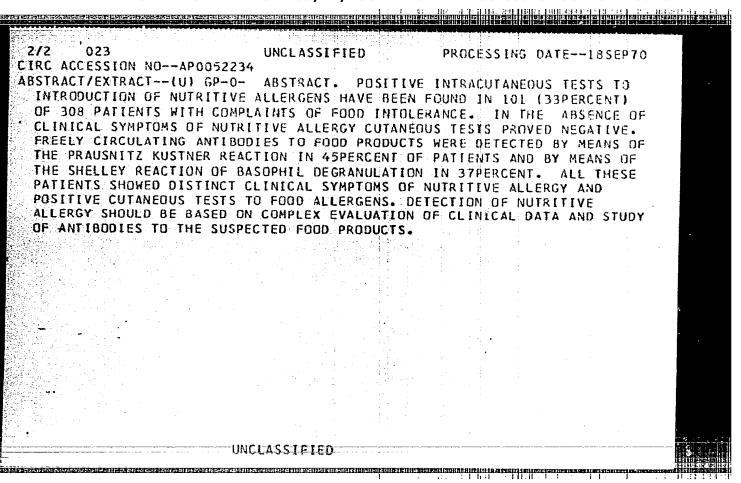
TOPIC TAGS--ALLERGIC DISEASE, ANTIBODY, FOOD, SKIN TEST

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STEP NO--UR/0475/70/000/002/0082/0084

CIRC ACCESSION NO--APO052234

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Acc. Nr:

AP0047114

Ref. Code: UPOSO4

PRIMARY SOURCE:

Terapevticheskiy Arkhiv, 1970, Vol 42, Nr

PP 64-67

CHARACTERISTICS OF IMMUNOLOGICAL REACTIVITY
AND MICROBIAL SENSITIZATION OF PATIENTS
WITH CHRONIC CHOLECYSTITIS

A. M. Nogaller
Summary

The author investigated the indices of the immunobiological condition of the organism in 300 patients with chronic cholecystitis. The phagocytic activity of leucocytes was low in 30%, and in 22% of the patients it appeared to be high. In most of the patients distortion of leucocytic reactions to adrenaline and decrease of nonspecific immunological reactibity according to loffe was observed.

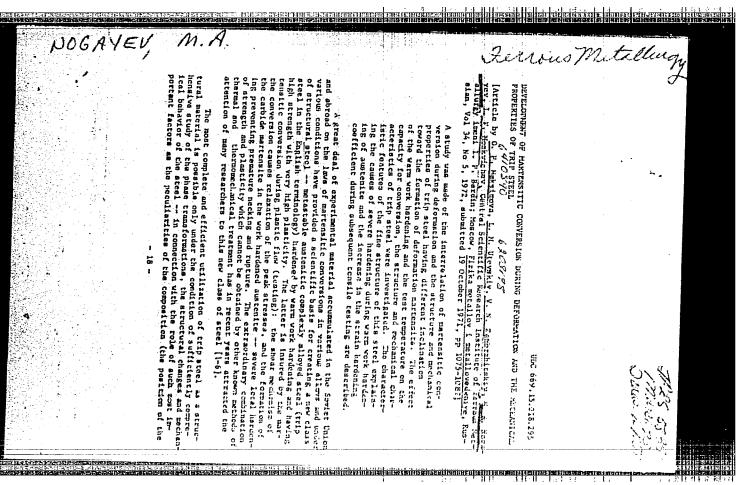
In most of the patients there was seen sensitization to conditionally pathogenic microliora — B. coli, streptococcus, staphylococcus, seldom — to enterococcus and proteus. In the recent years there has been noted a rise in allergization to staphylococcus, In some of the patients there is a rise in the titre of the agglutinating antibodies to B. coli and staphylococcus in the blood serum. Under the influence of treatment there was seen a tendency to normalization of the indices of the immunobiological condition of patients with chronic cholecystitis.

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TITLE—LEFFECT OF PROTON ACIDITY ON THE KINETIC ACTIVITY OF PALLADIUM I),
COPPER I, AND MERCURY II COMPLEXES IN THE HYDRATION OF ACETYLENE IN
AUTHOR—(04)—SOKOLSKIY, D.V., DORFMAN, YA.A., SEGIZBAYEVA, S.S.,

CCUNTRY OF INFO-USSR

SOURCE-ZH. PRIKL. KHIM. (LENINGRAD) 1970, 4513), 502-7

DATE PUBLISHED-----70

SUBJECT AREAS--CHEMISTRY

TOPIC TAGS—PALLADIUM COMPOUND, COPPER COMPLEX, MERCURY COMPLEX, COMPLEX COMPOUND, HYDRATION, ACETYLENE, PROTON, SULFURIC ACID, CHEMICAL REACTION MECHANISM

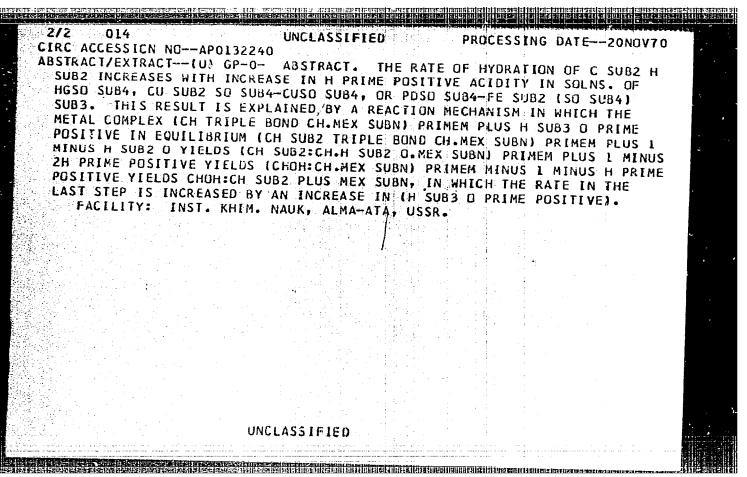
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DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3004/1979

STEP NO--UR/0080/70/043/003/0502/0507

CIRC ACCESSION NO--APO132240

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KAPSHIVYY, A. A., NOGIN, N. V.

"With Regard to the Solution of Problems Concerning the Complex X-Analytical Potential for a Spherical Round Disk"

Ukrainskiy Matematicheskiy Zhurnal, Vol 22, No 3, 1970, pp 369-374

Abstract: The formulation and the general approach with respect to the method of solving problems concerning the complex x-analytical potential for a spherical round disk are given in the works of G. M. Polozhiy, in which, by means of a basic integral representation of the x-analytical functions, the solution of these problems is reduced to a solution of the Riemann-Hilbert problem for analytical problems concerning the complex x-analytical potential for a spherical round disk by the method of G. M. Polozhiy is reduced to the found in closed form. In the same manner, it is possible to solve circular disk.

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NOGIN V. N.

UDC: 621.375.146

"A High-Efficiency Power Amplifier"

Kiev, IVUZ Radioelektronika, Vol 15, No 5, May 72, pp 556-564

Abstract: The author discusses two variations of an amplifier circuit which utilizes the principle of power supply from two sources having different voltages. The higher the absolute value of the instantaneous amplitude of the waveform being amplified, the higher the voltage of the supply source. An analysis is made of performance from the energy standpoint when amplifying a sinusoidal waveform, as well as with actual speech signals. Recommendations are made on selecting the second power supply voltage. Experimental results are given. It is found that the proposed type of amplifier circuit increases efficiency with a slightly more complicated arrangement than in conventional amplifier circuits. The greatest gain in efficiency is realized when amplifying comparatively weak signals. The maximum useful power taken from the transistors can be more than doubled when sinusoidal signals are amplified. Maximum efficiency is 85.9% in this case. Sue of the proposed circuit approximately doubles efficiency when amplifying actual speech signals. The gain in efficiency is even greater when the ratio of the output voltage to the supply voltage is less than unity.

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Organometallic Compounds

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NESMEYANOV, A. N., NOGINA, O. V., DROGUNOVA, G. I., and LOKSHIN, B. V., Institute of Hetero-Organic Compounds, Academy of Sciences USSR

"Bromination of Pentamethylcyclopentadienyltitanium Tribromide"

Moscow, Izvestiya Akademii Nauk SSSR, Seriya Khimicheskaya, No 2, 1973, pp 406-410

Abstract: Studies were conducted on the reactivity of the titanium-cyclopenta-dienyl bond as influenced by the substituents on the cyclopentadienyl ring. Pentamethylcyclopentadienyltitanium tribromide (I) was obtained by dropwise addition, with mixing, of 8.8 g of acetyl bromide in 4 ml hexane to 7.7 g of $C_5(CH_3)_5 Ti(CC_2H_5)_3$ in 7 ml of hexane. The crystals formed overnight represented a 91% yield (9.36 g) of $C_5(CH_3)_5 TiBr_3$, m.p. 242-250° (from hexane), and were dark-red. The synthesis and other experiments were conducted in an atmosphere of inert gas. I was characterized by IR, PMR, and NMR spectroscopy. The substitution of a single bromine atom for a hydrogen atom in a methyl group was achieved under the following conditions: 1) 2.34 g of bromine was added with mixing to 5 g of I in 250 ml of CCl_1 . The mixture was irradiated with a 220 watt Hg-quartz lamp for 10 h at 45-50° at a distance of ~ 50 cm; the yield of 1/2

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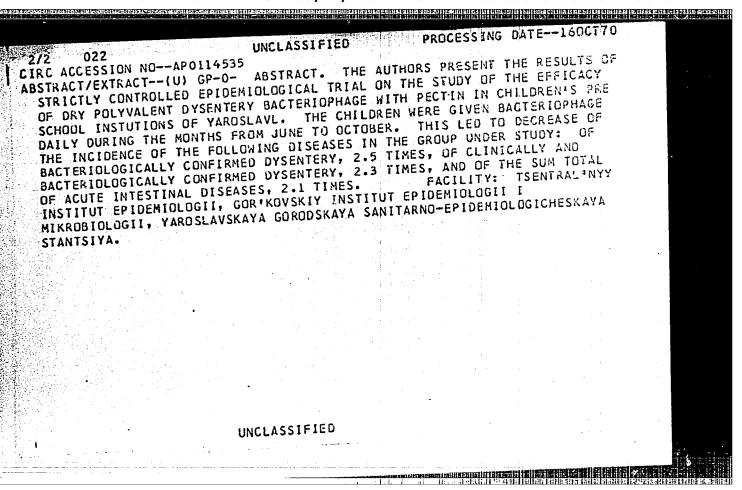
NESNEYANOV, A. N., et al., Izvestiya Akademii Nauk SSSR, Seriya Khimicheskaya, No 2, 1973, pp 406-410

[C₅(CH₃)₄CH₃Br] TiBr₃(II) was 40%.2) II could also be obtained with an excess of bromine and longer exposure times in 48% yield. Bromination of I could also be obtained with N-bromosuccinemide in the presence of either azodiisobutyronitrile or UV irradiation; the respective yields were 13 and 28%. Introduction of even a single bromine atom into I markedly alters the reactivity of the titanium-cyclopentadienyl bond to nucleophilic reagents. Ethanol was capable to breaking the 7% -bound ring of II even after a few minutes at room temperature. The data indicate that in addition to breaking the Ti-C₅(CH₃)₄CH₂Br bond, there occurs dehydrobromination of the organic fragment of the molecule which, apparently, results in fulvene formation.

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AUTHOR-(05) SOLODOVNIKOV, YU.P., N.A., NOGIEVA, YU.B.	PAYLOVA, L.I., MELYANGO,	
SOURCEZHURNAL MIKROBIOLOGII, E	PIDENTOLOGII I IMMUNOBIOLOGII, 1970, NR 5,	
PP 131-137 DATE PUBLISHED70		,
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SUBJECT AREASBIOLOGICAL AND ME	DICAL SCIENCES	
TOPIC TAGS-PROPHYLAXIS. BACTERI	OPHAGE, DYSENTERT, EFTEE	
CONTROL MARKINGNO RESTRICTIONS		
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PROCESSING DATE--13NOVTO

TITLE--NUMERICAL INVESTIGATION OF FREE CONVECTION IN THE CASE OF HEATING

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AUTHOR-(02)-3ERKOVSKIY, B.M., NOGOTOV, YE.F.

CCUNTRY OF INFO--USSR

SOURCE-AKADEMIIA NAUK SSSR, IZVESTIIA, MEKHANIKA ZHIDKUSTI I GAZA, MAR.-APR. 1970, P. 147~154 DATE PUBLISHED-----70

SUBJECT AREAS--PHYSICS

TOPIC TAGS--THERMAL CONVECTION, HEAT SOURCE, FLOW STRUCTURE, NUMERIC SOLUTION

CONTROL MARKING--NO RESTRICTIONS

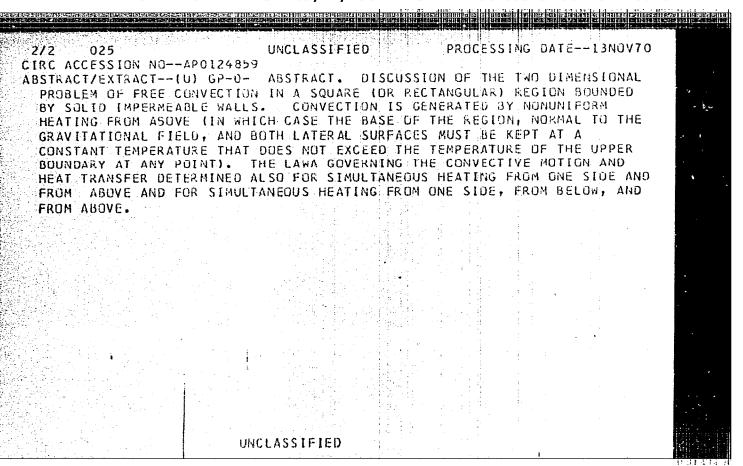
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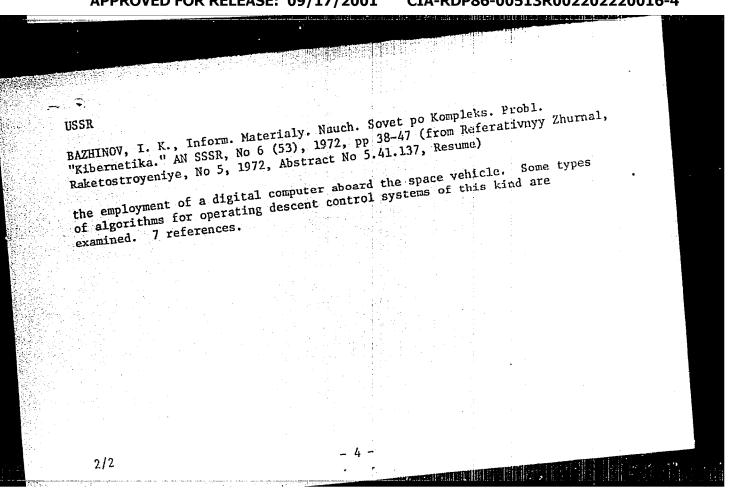
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"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002202220016-4 UDC 629.78.015.076.8 BAZHINOV, I. K., IVANOV, N. M., NOGOV. Q. A., and YAKOVLEV, O. S. "Some Adaptive Algorithms of Control of the Descent of Planetary Space <u>,</u> ~, USSR Inform. Materialy. Nauch. Sovet po Kompleks. Probl. (Information Materials inform. Materialy. Nauch. Sovet po Kompleks, Probl. (Information Material of the Scientific Council on Complex Problems), "Kibernetika." AN SSSR, "Kib Vehicles in the Earth's Atmosphere" or the Scientific Council on Complex Problems), Kibernetika. AN DOBK, No 8 (53), 1972, pp 38-47 (from Referativnyy Zhurnal, Raketostroyeniye, No 5 (53), 1972, pp 38-47 (from Referativnyy Zhurnal, Raketostroyeniye, No 5 (1) 173 Regume) Translation: The problem of controlling the descent of a space vehicle enter-Translation: The problem of controlling the descent of a space vehicle entering the Earth's atmosphere at hyperbolic velocities is presently becoming a 5, 1972, Abstract No 5.41.173, Resume) ing the mark atmosphere at hyperrolic velocities is presently occuming the entry velocity, the constantly more urgent one. With an increase of the entry velocity, the constantly more urgent one. With an increase or the entry velocity, the solution of the problem of landing of the craft in a given region of the solution of the problem of landing of the craft in a given region of the solution of the problem of landing of the craft in a given region of the solution of the problem of landing of the craft in a given region of the solution of the problem of landing of the craft in a given region of the solution of the problem of landing of the craft in a given region of the solution of the problem of landing of the craft in a given region of the solution of the problem of landing of the craft in a given region of the solution of the problem of landing of the craft in a given region of the solution of the solut Solution of the problem of landing of the craft in a given region of the Earth acquires substantial complexity, and there is a corresponding increase in the descent control everem. tarth acquires substantial complexity, and there is a corresponding increase in the demands made upon the descent control system. Such a descent control system must be versatile complexity. in the demands made upon the descent control system. Such a descent control system warlows kinds of emergency system must be versatile, capable of functioning in various antro velocities. system must be versatile, capable of functioning in various Rings of emergency situations, at any practicable range of descent, at various entry velocities, at various of the percentage of the situations, at any practicable range of descent, at various entry velocities, with random changes of the aerodynamic characteristics of the descending craft with random changes of the aerodynamic characteristics of the descending craft within the limits of tolerance, etc. An algorithm for operating such a descent within the limits of tolerance, etc. An algorithm for operating such a descent within the limits of tolerance, etc. within the limits of tolerance, etc. An algorithm for operating such a desc control system is a complex one; it can be brought to realization only with Total a terferi. In the Lange total Cont. E. fa



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CHISTYAKOV, G. YE., NOGOVITSYN, D. D., YAKUSHEV, M. V.

Gidroenergeticheskiye resursy basseyna reki Yany. (Hydroelectric Power Resources of the Yana River Basin), Moscow, Nauka, Press, 1970, 214 pp (from RZh-Elektrotekhnika i Energetika, No 2, Feb 71, Abstract No 2 D2 K)

Translation: This book contains a brief physical-geographic description of the Yana River Basin, information on hydrography and the regime of the principal rivers and the potential hydroelectric power reserves of the basin rivers more than 10 km long. In addition, other power resources and the economy of the region are investigated, and some arguments are presented regarding the prospects of development of power consumption and installation of power equipment. There are 13 illustrations, 51 tables and an 83-entry bibliography.

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- 311 -

Information Theory & Pattern Recognition

USSR

TER-ARUTYUNOV, G. M., NOGTIKOV, A. N., ANISIMOV, V. V.

"Device for Input of Information From a Photographic Information Carrier"

Otkrytiya Izobretmeniya Promyshlennye Obraztsy Tovarnyye Znaki, No 35, 1972, Patent No 359672

Translation: A device for input of information from a photographic information carrier containing a photosensitive matrix and connected to a convertor which is, in turn, connected to an input register and a pulse generator, differing in that in order to increase the reliability of counting, a marker pulse shaper containing a series-connected differentiating circuit, OR circuit, first Kipp relay, first shaper, second Kipp relay and a second shaper are connected to the input register zero-setting unit, containing a series-connected third Kipp relay and third shaper, a switch connected to the first Kipp relay, a marker pulse shaper unit, and a pulse generator, the output of the second shaper being connected to the interrogation wire, and the marker pulse shaper unit being connected to the inputs of the register.

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APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002202220016-4"

USSR

UDC: 681.327.12

TSVETAYEV, K. P. and NOCTIKOV. A. N.

"Device for Counting and Recognizing Symbols"

Moscow, Otkrytiya, Izobreteniya, Promyshlennyye Obraztsy, Tovarnyye Znaki, No 34, December 1971, p 151

Abstract: This invention contains a radiation source, an information carrier, and a receiver arranged in sequence along the optical axis and connected with a recognition block which, in turn, is connected to a coding and control block. To increase the speed of the device, a diaphragm block is added; it is connected to the recognition block output and placed between the information carrier and receiver. The diaphragm block contains a polarizer of potassium dihydrophosphate crystals and an optically connected analyzer. The recognition block contained switches which are used for selecting symbol groups through logic circuits.

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USSR

NOLEN, L. V.

""ATF: An Intelligent Programming Language"

VKP-2 Tr. 2-y Vses. Konf. po Programmir., 1970, Dokl. in. Uchastnikov [VKP-2 Works of Second All-Union Conference on Programming, 1970, REports of Foreign Participants -- Collection of Works], Novosibirsk, 1971, pp 59-77, (Translated from Referativnyy Zhurnal, Kibernetika, No 2, 1972, Abstract No 2 V677 by V. Mikheyev).

Translation: The semantics, syntax, properties and capabilities of ATF (language a tout faire -- the language for any use) are described. Illustrative examples are presented.

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USSR

UDC 577.170.49

UPITIS, V., PAKALNE, D., and NOLLENDORFA, A., Institute of Biology, Academy of Sciences Latvian SSR

"Little Investigated Trace Elements in Chlorella. II. Nickel"

Riga, Izvestiya Akademii Nauk Latviyskoy SSR, No 4 (285), 1971, pp 24-34

Abstract: A laboratory investigation of the effects of trace elements on Chlorella cultures revealed that the presence of nickel in the nutrient medium (0.01-30 mg/ml) exerts no stimulating effects. On the contrary, as the concentration of this trace element rises above 0.5 mg/ml, Chlorella growth is correspondingly suppressed and chemical changes develop in the cells: chlorophyll is partly destroyed, protein concentration decreases, and carbohydrate concentration increases. The toxic effects of nickel can be reduced by: adding the chelating agent Na_EDTA to the nutrient medium; increasing the

concentration of other trace elements; increasing the concentration of zinc (competes with nickel) to 1-5 mg/ml; or increasing the density of the Chlorella suspension.

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USSR

UDC 547.241 183:542.951.9

NIFANT'YEV, E. YE., KODOLOV, V. I., and NONISHNEV, YE. P., Institute of Chemistry, Ural Branch of the Acad. Sc. USSH

"Reaction of Tetraethyldiamides of Alkylphosphorous Acids With Hydroquinone"

Leningrad, Zhurnal Obshchey Khimii, Vol 41 (103), No 2, Feb 71, p 482

Abstract: Depending on the ratios of the starting materials and on the reaction temperature, the distillate collected after completion of the reaction between tetraethylamide of ethylphosphorous acid and hydroquinone may contain diethylamine, triethylamine, ethanol, and amidophosphite.

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- 72 -

USSR

UDC 577.391:575.1:633.11

SEMERDZHYAN, S. P., NOR-AREYYAN N. G., SAAKYAN, A. G., and GRIGORYAN, Z. D., Scientific Research Institute of Agriculture, Armenian SSR

"The Relationship Between the Radiation Sensitivity of Wheat Seedlings and the Content of Sulfhydryl Compounds in Meristem Cells"

Yerevan, Biologicheskiy Zhurnal Armenii, Vol 24, No 3, Mar 71, pp 106-107

Abstract: Two lines of the same variety of wheat (Bezostaya 1) were selected, one with rapidly growing and the other with slowly growing seedling stalks. Two-day old seedlings of both lines, which were genetically identical, were irradiated with gamma-rays in a dose of 300 r. The content of SII groups per 100 mg of stalk meristem cells of seedlings not irradiated was 1.007 and 1,315 micromole for the rapid-growing and the slow-growing line, respectively. Upon irradiation, the growth of stems of the rapid-growing line was depressed to a greater extent than that of stems of the slow-growing line. The number of cells with chromosome aberrations determined in anaphase after irradiation was greater in the stalk meristem of the rapid-growing line than that of the slow-growing line. The results showed that there was a definite correlation between the radiation sensitivity of the seedlings and the content of SH groups in their meristem cells.

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UNCLASSIFIED PROCESSING DATE--27NOV70 TITLE--EXPERIMENT IN THERMAL SOUNDING OF THE ATMOSPHERE FROM SATELLITES AUTHOR-(05)-KONDRATYEV, K.YA., NORDBERG, V., POKROVSKIY, O.M., TIMO, EYEV, YU.M., KHANEL, R. COUNTRY OF INFO--USSR SOURCE-MOSCOW, DOKLADY AKADEMIT NAUK SSSR, VOL 191, NO 6, 1970, PP 1274-1276 DATE PUBLISHED ---- 70

SUBJECT AREAS--SPACE TECHNOLOGY, ATMOSPHERIC SCIENCES

TOPIC TAGS-TEMPERATURE, MEASUREMENT, INTEGRAL EQUATION, EARTH RADIATION, THERMAL RADIATION, SATELLITE DATA ANALYSIS

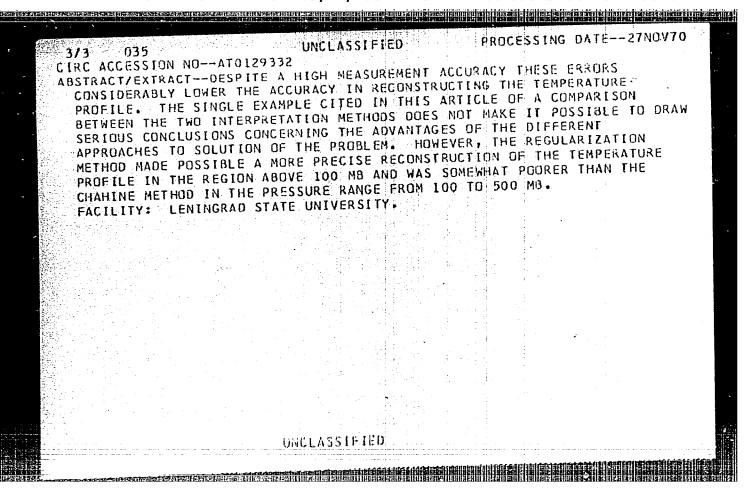
CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3003/0050

STEP NO--UR/0020/70/191/006/1274/1276

CIRC ACCESSION NO--AT0129332 UNCLASSIFIED

PROCESSING DATE--27NOV70 UNCLASSIFIED ABSTRACT. THE PROBLEM OF THERMAL SOUNDING OF 035 2/3 CIRC ACCESSION NO--AT0129332 THE ATMOSPHERE ESSENTIALLY INVOLVES SOLUTION OF A FREDHOLM INTEGRAL ABSTRACT/EXTRACT--(U) GP-0-I(V) INTEGRAL FUNCTION OF K(GAMMA, P) PHI TWO METHODS ARE USED IN THIS STUDY FOR SOLVING INTEGRAL EQUATION OF THE FIRST KIND: EQUATION (1): THE REGULARIZATION METHOD (A. N. TIKHONOV, DAN, 153, NO 1, 34, 1963) WITH CHOICE OF A QUASI OPTIMUM APPROXIMATION BY A METHOD PROPOSED BY ONE OF THE AUTHORS AND THE M. T. CHAHINE METHOD (J. OPT. SOC. AM., 58, NO 12, 1934, 1968), BASED ON MINIMIZING THE MEAN SQUARE DIFFERENCE BETWEEN THE MEASURED AND THEORETICALLY COMPUTED RADIATION VALUES. IN BOTH METHODS THE INITIAL INFORMATION, THE MAGNITUDE OF OUTGOING RADIATION, AND KERNEL OF THE EQUATION COINCIDED. COMPARISON OF THE TWO METHODS REVEALS A GOOD GENERAL AGREEMENT BETWEEN DIRECT AND INDIRECT TEMPERATURE DETERMINATIONS. HOWEVER, ERRORS IN DETERMINING TEMPERATURE FROM SATELLITE DATA IN SOME CASES ARE CONSIDERABLE, ATTAINING APPROXIMATELY LODEGREES NEAR THE LOO ME LEVEL IN INTERPRETATIONS BY THE CHAHINE METHOD AND BOEGREES BY THE REGULARIZATION THE STANDARD DEVIATIONS FOR BOTH INTERPRETATION METHODS ARE APPROXIMATELY IDENTICAL AND CLOSE TO 3DEGREES. RELATIVELY LARGE ERRORS IN INDRIECT DETERMINATION OF TEMPERATURE CAN BE ATTRIBUTED TO A NUMBER OF FACTORS: ERRORS IN MEASURING RADIATION, ERRORS IN STIFULATING THE KERNEL OF EQUATION (1), ERRORS IN NUMERICAL SOLUTION OF THE INTEGRAL EQUATION (APPROXIMATION ERRORS, ERRORS IN ROUNDING OFF). THE PRINCIPAL SOURCES OF ERRORS ARE THE FIRST TWO. ERRORS IN STIPULATING THE KERNAL OF EQUATION (1) ARE PARTICULARLY IMPORTANT. UNCLASSIFIED



UDC 616.981.25-097.5-02.613.166.9(99)

TASHPULATOV, B. YU., NORDVINOVA, N. B., and ROGUNOVA, K. A., Institute of Epidemiology and Microbiology Imeni Gamaleya, Academy of Medical Sciences USSR

"Microbiological and Immunological Studies of the Human Organism in Antarctic Conditions. III. Characteristics of Staphylococcus Infection in an Isolated Collective"

Moscow, Zhurnal Mikrobiologii, Epidemiologii i Immunobiologii, No 4, Apr 71, pp:68-73

Abstract: The Staphylococcus flora of the upper respiratory passages (nose and pharynx) and the skin of 14 participants in the 12th USSR Antarctic Expedition was investigated during 10 mo of isolated sojourn of the participants as argroup at the Antarctic station Novolazarevskaya. A bacteriological study was conducted every month. A total of two hundred and fifty Staphylococcus strains were isolated, 81 of which were pathogenic and 169 nonpathogenic. The pathogenic Staphylococci differ in properties (including sensitivity to antibiotics) from those isolated from healthy carriers in Moscow. Their distribution among individuals was also the same. As a rule, pathogenic Staphylococci isolated from any one person were of the same phage type. All 14 persons were constant carriers of nonpathogenic Staphylococci and 10 of them carried in addition pathogenic Staphylococci. Presence of Staphylococii in the pharynx was more

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002202220016-4"

TASHPULATOV, R. YU., et al., Zhurnal Mikrobiologii, Epidemiologii i Immunobiologii, No 4, Apr 71, pp 68-73

frequent than under ordinary conditions. Some of the carriers of pathogenic Staphylococci (one of them developed bilaterial hydroadenitis and was evacuated from the station for this reason) transmitted them to other members of the group in the form of a latent infection not accompanied by disease. As shown by a study of the four subjects carrying nonpathogenic Staphylococci only, these Staphylococci were gradually eliminated from the upper respiratory passages during sojourn in the Antarctic.

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UDC 621.375.4:621.382.3

IL'IN, V. A., DIMITRAKI, P. N., ZHURAVLEY, I. G., and NOREKYAN, P. A.

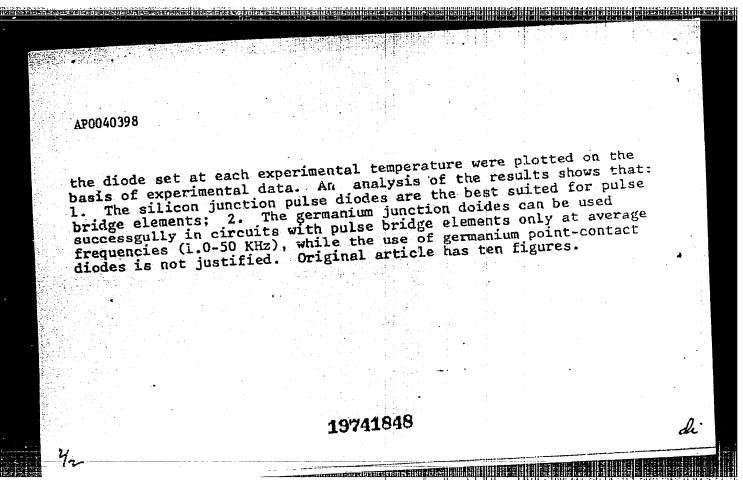
"Experimental Investigation of Semiconductor Diodes Designed for Pulse Bridge Elements"

Moscow, Radiotekhnika, Vol 25, No 1, Jan 70, pp 84-88

Abstract: An experimental investigation of semiconductor diodes intended for pulse bridge elements was carried out, to determine their forward current voltage characteristics and the values of the differential resistance of certain types of diodes. This data is necessary for determining the stability of pulse bridge elements. Two sets (20 each) of diodes of different origin were tested at -60°C, +25°C, and +75°C for germanium diodes and at -60°C, +25°C, and +120°C for silicon diodes, the technological spread of their parameters was investigated. The results are presented in the form of current voltage and resistance characteristics. The characteristics of the maximum and minimum technological spread and the dependence of the differential resistance of

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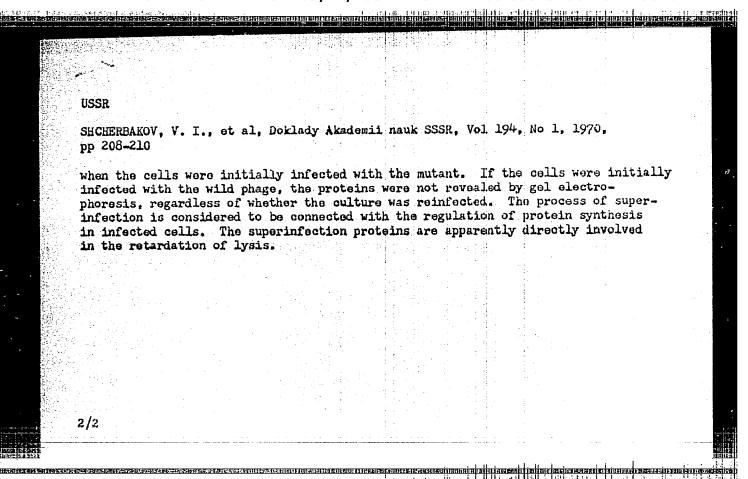
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SHCHERBAKOV, V. I., SHEVCHENKO, N. A., NORENKO, N. P., and GUMANOV, L. L., Institute of Chemical Physics, Academy of Sciences USSN

"'Superinfection Proteins' of Phage T4B of Escherichia coli and the Pleiotropic Effect of the rl Mutation"

Moscow, Doklady Akademii nauk SSSR, Vol 194, No 1, 1970, pp 208-210

Abstract: An E. coli B culture was infected with phage Turt or Turl and, after 11 min, reinfected with Turt. Samples taken 1 min after the first infection and every 2 min thereafter were transferred to test tubes containing 20 micro C of Cluby hydrolysate of Chlorella protein. After 2 min of incubation, the sample was cooled in dry ice and the suspension precipitated by centrifugation. After certain other procedures, the supernatant was subjected to disk electrophoresis in a polyacrylamide gradient. The time at which the synthesis of most proteins began and ended was the same in both the mutant and the wild phage. However, in the late stages of the latent period, the rl mutant contained radioactive proteins that were absent in cells infected with the mild phage. After infection of E. coli B under conditions preventing reinfection, or after superinfection during the late stages of the latent period, certain proteins could not be found. These proteins appeared only after repeated infection at the start of the latent period and only 1/2



UDC: None

ANISIMOV, B. V. and WORENKOV, I. P.

"Electronic Circuit Design Using Digital Computers"

Moscow, "Znaniye;" March 1973, 64 pp

Abstract: Three types of problems arising in electronic design that can be handled by digital computers are concerned with systems, circuits, and structures. One of the reasons for the versatility of the digital computer in this regard is its ability to make the transition from analytic methods of solution to numerical methods, and the rapidity of its operation in the latter. In this pamphlet, the authors discuss problems in electron circuit design that lend themselves especially to solution by computers, mathematical models of electron circuits, methods of circuit analysis, optimization of circuitry, designing programs for the computer, and finally, examples of circuit design solutions effected by the digital computer. The accent of the book is heavily on the practical side. A bibliography of only three titles is given; there are 12 illustrations.

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UDC 621.382.8.001.24:621.314.33

ANISIMOV, B.V., KAZENNOV, G.G., NORENKOV, I.P.

*Concerning Some Problems Of Mechanical Design Of Integrated Circuits

V sb. Mikroelektronika (Microelectronics--Collection Of Works), Moscow, Izd-vo Sovetskoye Radio, No 4, 1971, pp 249-256

Abstract: In addition to the stage of designing the principal electrical circuits, planning of microcircuits includes a stage for the design of active components and topology. Problems originating at these stages are considered as well as problems of the use of machine methods for their solution. A detailed diagram is shown of the stages and the problems of a system of automatic planning. I fig. 15 ref.

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UDC 612.79.014.482

NORETS. T. A., IL'IN, L. A., and HSAMOV, V. N., Leningrad Scientific Research Institute of Radiation Hygiene, Ministry of Health RSFSR

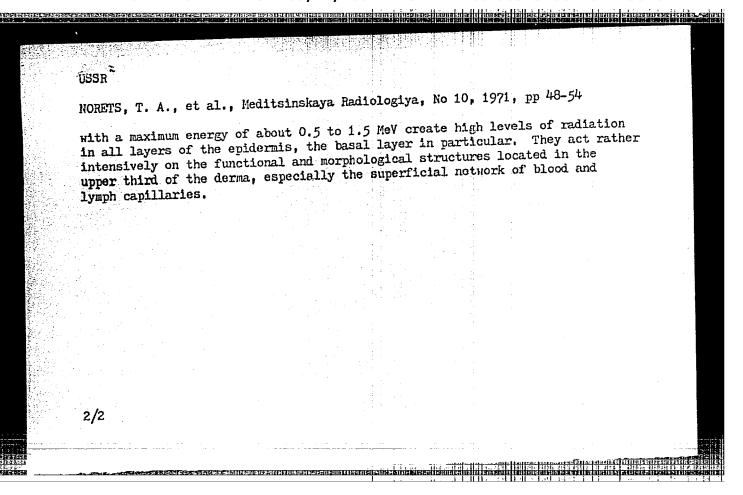
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"Absorbed Doses in the Skin and Changes Therein With Increasing Depth of Contamination by β and β - Emitters With Different Energies"

Moscow, Meditsinskaya Radiologiya, No 10, 1971, pp 48-54

Abstract: The purpose of the work was to: (a) calculate the absorbed doses at different depths of the skin created by emitters with maximum energies (E) ranging from 0.16 to 3.0 MeV; (b) trace the relationship between the distribution of absorbed doses and E; (c) determine the degree of irradiation of various functional and morphological structures of the skin after contamination by emitters. The levels of absorbed doses in the surface layers of the epidermis and extent of decrease with depth were found to vary with the energy of the psectrum. The lower the energy, the sharper the decrease in the dose from layer to layer. The lower the energy of the psectrum (i,e,, with E 0.4 MeV) affect mainly the layers of epidermis insensitive to radiation. The degree of irradiation of the basal layer varies considerably with the thickness of the epidermis and energy of the spectrum.

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UNCLASSIFIED PROCESSING DATE--13NOV70
TITLE--THE BINDING OF RADIDACTIVE ISOTOPES BY COMPONENTS OF THE SKIN -U- .

AUTHOR-(04)-SHVYDKO, N.S., ILIN, L.A., NOREIS, T.A., ANTONOVA, V.A.

COUNTRY OF INFO--USSR

SOURCE--MEDITSINSKAYA RADIOLOGIYA, 1970, VOL 15, NR 6, PP 67-72

DATE PUBLISHED----70

SUBJECT AREAS-BIOLOGICAL AND MEDICAL SCIENCES, NUCLEAR SCIENCE AND TECHNOLOGY
TOPIC TAGS--RADIOACTIVE ISOTOPE, SKIN PHYSIOLOGY

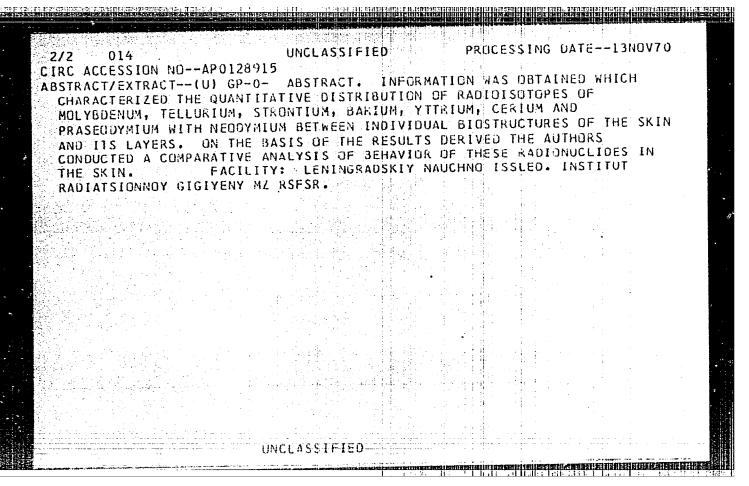
CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3002/1520

STEP NO--UR/0241/T0/015/006/0067/0072

CIRC ACCESSION NO--AP0128915

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Acc. Nr: AP0034681

Ref. Code: UR 0241

PRIMARY SOURCE:

Meditsinskaya Radiologiya, 1970, Vol 15,

Nr 2, pp 58-64

THE INTERACTION OF MOSS WITH BIOCOMPONENTS OF THE SKIN

Shvydko, N. S.; Il'in, L. A.; Norets, T. A.; Antonova, V. A.

The paper presents data characterizing the fixation of Mo³⁹ by individual biocomponents of the skin, as well as the epidermis, derma and subcutaneous cellular tissue. The authors demonstrate the quantitative distribution of Mo³⁹ between lat-soluble, water-soluble and residual fractions of the skin and its layers. The mechanisms of fixation of Mo³⁹ by different structures of the tissue are discussed.

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USSR

UDC 621.3.049.7

NOREYKO L. P.

"A Method of Inspecting Printed-Circuit Boards"

Moscow, Otkrytiya, izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, No 8, Mar 71, Author's Certificate No 296298, division H, filed 5 Jan 70, published 12 Feb 71, p 201

Translation: This Author's Certificate introduces a method of inspecting printed-circuit boards at individual stages of the technological process of making them. As a distinguishing feature of the patent, labor productivity is increased and manufacturing errors are reduced by using stereoscopic registration of the master board and the one to be inspected.

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USSR

UDC 621.373.826:53

NORINSKIY, L. V.

"Initiation of Directional Electric Breakdown in a Gas by Third Harmonic Radiation of a Neodymium Laser"

V sb. <u>Kvant. elektronika</u> (Quantum Electronics--collection of works), Moscow, No 5, 1971, pp 108-109 (from <u>RZh-Radiotekhnika</u>, No 1, 1972, Abstract No 1D580)

Translation: Observation of optical initiation of directional electric breakdown in the air at atmospheric pressure by a collimated ultraviolet beam with a photon energy of 3.5 electron volts (the third harmonic of the radiation of a neodymium laser) for the first time is reported. The initial plasma concentration and the required power density to observe the effect in the third harmonic of a neodymium laser is estimated. The power density required to observe an analogous effect at wavelengths of 1.06 and 0.53 microns was calculated. On the first wavelength it significantly exceeds the threshold power of optical breakdown, and on the second wavelength it is comparable to it. The experiment confirmed the calculated data (a stabilized efficient source of powerful coherent ultraviolet radiation was used). The bibliography has 2 entries.

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USSR

UDC 669.018.44.669.018.2

KLYPIN, A. A., NOVIK, F. S., and NORISOV., YE. S.

"Study of Correlations Between Mechanical Properties of Some Alloys"

V sb. Povysh. konstruktivn. prochnosti staley i splavov (Increasing the Structureal Strength of Steels and Alloys - Collection of Works), No 1, Moscow, 1970, pp 91-94 (from RZh-Metallurgiya, No 3, Mar 71, Abstract No 31906 by A. Gruzdov)

Translation: A "Minsk-22" computer was used for correlation analysis of the mechanical properties (OB, OT, OW, Ocreep, E, S, W, aH, HB,

) of heat-resisting steels and Ni-deformable and casting alloys. The presence of absence of a linear correlation was judged from pair-correlation coefficient values and signs. Correlations are found between most of the indicated properties, including between short-term strength at 20°C and rupture strength at high temperatures. The most important consequence of the presence of a correlation is the possiblity of predicting most properties from a certain number of characteristics which are the simplest to determine. Two illustrations. Bibliography with four titles.

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USSR

SKVORTSOV, A. M., ZARETSKIY, I. L., and NORKIN, L. M.

"Some Economic Problems of Planning, Designing, and Manufacturing Large Integrated Circuits from MOS-Transistors for Storage Devices"

Elektron. tekhnika Nauch.-tekhn. sb. Mikroelektronika (Electronic Engineering. Scientific and Technical Collection. Microelectronics), 1970, vyp. 5 (26), pp 183-185 (from RZh-Avtomatika, Telemekhanika i Vychislitel'naya Tekhnika, No 6, Jun 71, Abstract No 6 B346)

Translation: A comparative estimate of the cost of various types of semiconducting memories is presented. The cost of the circuit as a whole and the specific cost calculated per binary unit are investigated. The results of this estimate are presented for a memory of different capacity made of MOS-transistors and also for devices with a capacity of 1,000 bits executed in the form of large integrated circuits based on single crystals and mosaic integrated circuits using a montage by the inverted crystal method. It is demonstrated that on the modern level of development of technology, the specific cost of mosaic integrated circuits is 35 times less than that of large integrated circuits of the same capacity. There are illustrations and a 5-entry bibliography.

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PRIMARY SOURCE:

Vestnik Khirurgii imeni I. I. Grekova, 1970,

Vol 104, Nr / , pp 73-77

THE EXPERIENCE WITH 1255 HEMIGASTRECTOMIES ASSOCIATED WITH VAGOTOMY

By P. I. Norkunus and E. P. Norkus

In the article etiopathogenesis of ulcerous disease of the stomach and duodenum is explained by venous congestion in the lesser curvature of the stomach. Therefore, hemigastrectomy with vagotomy and devascularization of the lesser curvature of the stomach is recommended in ulcerous disease. The work presents a summary of the authors' experience with this method in 1255 patients during the period from 1945 to 1968. In late postoperative period in 43 of 213 investigated patients (29.18%) the complaints were noted. After histamine gastric juice remained ahydrochloric in 70.66% of cases. Achylia was observed in 22.2%. An average time of evacuation of a contrast matter from the stomach was 20 minutes. Dumping—syndrome was noted in 17.37 per cent of cases, hypoglycemic syndrome—in 13.14 per cent. The results of surgery are as follows: excellent—in 43.19 per cent, good—in 49.30 per cent, satifactory—in 5.63 per cent and poor—in 1.88 per cent.

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NORMAN, A., Laboratory of Organic Synthesis, The Sorbonne, Paris

"Hexamethylphosphorus Triamide in Organic Chemistry"

Moscow, Uspekhi Khimii, Vol 39, No 6, 1970, pp 990-1049

Abstract: Of the aprotonic dipolar solvents used in chemical reactions, greatest interest has centered on the hexamethyltriamide of orthophosphoric acid O-P(NMe2)3 (hexamethapol). The author reviews data on physical and chemical properties of the compound and its use as a reaction medium. In outline, the article consists of the following sections:

Physical and Physicochemical Properties Chemical Properties Use of Rexamethylphorphorus Triamide as Reaction Medium --Electron Donor

- A. Formation of anions and metalizing
- B. Isomerization -- polymerization
- C. Uses of anions
- D. Comparison of aprotonic dipolar solvents Use of Hexamethylphosphorus Triamides as Reaction Medium -- Electron Acceptor

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